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United States Department of Agriculture

MONTHLY LIST OF PUBLICATIONS

JANUARY 1936

Any five of the nontechnical publications listed herein, unless indicated "For sale only", may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Castrating and docking lambs. D. A. Spencer, Bureau of Animal Industry, and E. W. Baker, Bureau of Agricultural Economics. 12 p., illus. (F. B. 1134F, rev.) Price, 5¢.

Dairy cattle breeds. Amer B. Nystrom, Bureau of Dairy Industry. 32 p., illus. (F. B. 1443F., rev.) Price, 5¢.

Modernizing farmhouses. Wallace Ashby and Walter H. Nash, Bureau of Agricultural Engineering. 62 p., illus. (F. B. 1749F.) Price, 5¢.

Roof coverings for farm buildings and their repair. A. D. Edgar and Thos. A. H. Miller, Bureau of Agricultural Engineering. 30 p., illus. (F. B. 1751F.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contains the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Timber growing and logging practice in the Southwest and in the Black Hills region. G. A. Pearson, Southwestern Forest and Range Experiment Station, and R. E. Marsh, Forest Service. 80 p., illus. (T. B. 480T.) Price, 10¢.

The composition and constitution of the colloids of certain of the great groups of soils. Horace G. Byers, Lyle T. Alexander, and R. S. Holmes, Bureau of Chemistry and Soils. 39 p. (T. B. 484T.) Price, 5¢.

Explosibility of agricultural and other dusts as indicated by maximum pressure and rates of pressure rise. Paul W. Edwards and L. R. Leinbach, Bureau of Chemistry and Soils. 24 p., illus. (T. B. 490T.) Price, 5¢.

Artificial reforestation in the southern pine region. Philip C. Wakeley, Forest Service. 115 p., illus. (T. B. 492T.) Price, 15¢.

Decay following fire in young Mississippi Delta hardwoods. George H. Hepting, Bureau of Plant Industry. 32 p., illus. (T. B. 494T.) Price, 5¢.

Utilization and cost of power on Mississippi and Arkansas Delta plantations. L. A. Reynoldson, Bureau of Agricultural Economics; W. R. Humphries, Bureau of Agricultural Engineering; S. R. Speelman and E. W. McComas, Bureau of Animal Industry; and W. H. Youngman, Bureau of Agricultural Economics. 47 p., illus. (T. B. 497T.) Price, 5¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

The migration of North American birds. Frederick C. Lincoln, Bureau of Biological Survey. 72 p., illus. (Cir. 363C.) Price, 10¢.

Industrial fumigation against insects. E. A. Back and R. T. Cotton, Bureau of Entomology and Plant Quarantine. 52 p., illus. (Cir. 369C.) Price, 5¢.

Varietal suitability of peaches for preserve making and factors affecting the quality of the product. H. H. Moon, C. W. Culpepper, and Joseph S. Caldwell, Bureau of Plant Industry. 22 p., illus. (Cir. 375C.) Price, 5¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Present guides for household buying. Ruth O'Brien and Medora M. Ward, Bureau of Home Economics. 36 p. (M. P. 193MP., rev.) Price, 5¢.

Studies of family living in the United States and other countries: An analysis of material and method. Faith M. Williams, Bureau of Home Economics, in cooperation with the Social Science Research Council and the Institute of Pacific Relations, and Carle C. Zimmerman, Harvard University. 617 p. (M. P. 223MP.) Price, 60¢.

Home dyeing with natural dyes. Margaret S. Furry and Bess M. Viemont, Bureau of Home Economics. 36 p. (M. P. 230MP.) Price, 5¢.

STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

Car-lot shipments of fruits and vegetables from stations in the United States, for the calendar years 1932 and 1933. Bureau of Agricultural Economics. 150 p. (S. B. 50SB.) Price, 15¢.

Stumpage and log prices for the calendar year 1934. Henry B. Steer, Forest Service. 61 p. (S. B. 51SB. Price, 10¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Gypsy moth and brown-tail moth quarantine (Quarantine no. 45.) Revision of quarantine and regulations. Effective November 4, 1935. Bureau of Entomology and Plant Quarantine. 8 p. (B. E. P. Q.-Q. 45.)¹

Bureau of Animal Industry, Service and Regulatory Announcements. November 1935. Pp. 157-170. (S. R. A.-B. A. I. 343.) Price, 5¢ each.²

Bureau of Entomology and Plant Quarantine, Service and Regulatory Announcements. July-September 1935. Pp. 49-69. (S. R. A.-B. E. P. Q. No. 124.)¹

Amendment of July 8, 1930, to Federal Food and Drugs Act and requirements thereunder. Food and Drug Administration. 12 p. (S. R. A., F. D. No. 4, Rev. 3.)¹

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area.

Nebraska, Valley County. (No. 4, series 1932.) 38 p., illus. Price, 25¢.

OTHER PUBLICATIONS

Handbook of official United States standards for beans. Revised effective August 1, 1935. Bureau of Agricultural Economics. 34 p. Price, 10¢.

Plant material introduced by the Division of Plant Exploration and Introduction. Bureau of Plant Industry, October 1 to December 31, 1933. (Nos. 103777-103988.) 14 p. (Inventory 117.) Price, 5¢.

Report of the Chief of the Bureau of Entomology and Plant Quarantine, 1935. Lee A. Strong. 96 p. Price, 10¢.

¹ These may be obtained from the issuing bureau.

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Indicate below, by numbers IN NUMERICAL ORDER, bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelope to United States Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications. If more are desired please apply to Superintendent of Documents, Government Printing Office, Washington, D. C., enclosing remittance to cover cost of publication. Be sure to fill in blank form on reverse side.

Farmers' Bulletins	Leaflets	Other publications

Report of the Director of Personnel, 1935. W. W. Stockberger. 6 p. Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 20, no. 1, January 1, 1936. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.²

Crops and markets. Vol. 12, no. 12, December 1935. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.²

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.²

Experiment station record. Vol. 72, Index number. January-June 1935. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.¹

A technical view of the world's scientific literature pertaining to agriculture.

Extension service review. Vol. 6, no. 12, December 1935. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.²

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$3.25 a year domestic; \$4.75 a year foreign. Each issue, 15¢ domestic; 20¢ foreign. Reprints, 5¢ domestic; 8¢ foreign.² Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 51, no. 5. September 1, 1935. Illus.

Contents:

The relative protein efficiency and the relative vitamin G content of common protein supplements used in poultry rations (N. Y. (Cornell)—30). H. S. Wilgus, Jr., L. C. Norris, and G. F. Heuser.

The nutritive value of the proteins of corn-gluten meal, linseed meal, and soybean-oil meal (N. Y. (Cornell)—29). Kenneth L. Turk, F. B. Morrison, and L. A. Maynard.

Nutrient-solution purification for removal of heavy metals in deficiency investigations with *Aspergillus niger* (G-978). Robert A. Steinberg.

A simple, accurate method of computing basal area of forest stands (F-70). C. Allen Bickford.

The effect of one and of two seedling lethals in the heterozygous condition on barley development (Colo.-9). D. W. Robertson and W. W. Austin.

Soil-temperature studies on Florida cigar-wrapper tobacco (Fla.-18). Randall R. Kincaid and L. O. Gratz.

The development of the barley spike (Ill.-60). O. T. Bonnett.

¹ These may be obtained from the issuing bureau.

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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Journal of agricultural research. Vol. 51, no. 5. September 1, 1935. Illus.

Contents:—Continued.

The sequence of appearance, molt, and replacement of the juvenile remiges of some domestic birds (Kans.-76). D. C. Warren and C. D. Gordon.
Macrosporogenesis and embryology of *Medicago* (Wis.-70). D. C. Cooper.

— Vol. 51, no. 6. September 15, 1935. Illus.

Contents:

Influence of the ingestion of colostrum on the proteins, of the blood sera of young foals, kids, lambs, and pigs (A-167). Imogene P. Earle.
A study of the cause of variability in response of barley loose smut to control through seed treatment with surface disinfectants (G-976). V. F. Tapke.
The sugar beet nematode and other indigenous nemie parasites of shadscale (G-977). Gerald Thorne.
Scab of goldenrod caused by *Elsinoë* (G-982). Anna E. Jenkins and H. G. Ukkelberg.
Oxidation and gas formation in the spontaneous heating of hay (E-64). E. J. Hoffman.
The construction of normal-yield and stand tables for even-aged timber stands (F-71). James G. Osborne and Francis X. Schumacher.
Physiological factors influencing the rate of egg formation in the domestic hen (Kans.-77). D. C. Warren and H. M. Scott.

— Vol. 51, no. 7, October 1, 1935. Illus.

Contents:

A cytological study of the resistance of apple varieties to *Gymnosporangium juniperi-virginianae* (Wis.-72). Charles J. Nusbaum.
Influence of the carbohydrate-nitrogen relation on nodule production by red clover (Wis.-73). Carl E. Georgi.
The relation of foliage color to aphid resistance in some varieties of canning peas (Wis.-74). Ed M. Searls.
Earliness of sexual reproduction in wheat as influenced by temperature and light in relation to growth phases (G-975). H. H. McKinney and W. J. Sando.
The anatomy and histology of the transition region of *Tragopogon porrifolius* (Ohio-19). Leon Havis.
Effect of interior temperatures of beef muscle upon the press fluid and cooking losses (Minn.-93). Alice M. Child and J. Agnes Fogarty.
The diffusible calcium in the serum of laying and nonlaying hens (N. J.-30). Milton W. Taylor and Walter C. Russell.

Monthly weather review. Vol 62, Index. 1934; Vol. 63, no. 10, October 1935. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.² Not for general distribution.

Contain (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 16, no. 10, December 1935. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.²

Soil conservation. Vol. 1, no. 6, January 1936. Price, 10¢ a copy; \$1 a year, domestic.²

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

Weekly weather and crop bulletin. No. 53, December 31, 1935; nos. 1-4, January 7-28, 1936. Price, 50¢ a year, domestic; \$1 a year, foreign.²

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

The making and feeding of silage. T. E. Woodward, Bureau of Dairy Industry; and W. H. Black, D. A. Spencer, and J. O. Williams, Bureau of Animal Industry. 30 p., illus. (F. B. 578F., rev.) Price, 5¢.

Livestock for small farms. Ralph Erskine, Bureau of Animal Industry. 33 p., illus. (F. B. 1753F.) Price, 5¢.

Care and repair of mowers and binders. W. R. Humphries, Bureau of Agricultural Engineering. 21 p., illus. (F. B. 1754F.) Price, 5¢.

LEAFLETS

The series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Honey and some of its uses. Elizabeth Fuller Whiteman and Fanny Walker Yeatman, Bureau of Home Economics. 8 p. (Leaf. 113L.) Price, 5¢.

Vine-mesquite for erosion control on southwestern ranges. Barnard A. Hendricks, Forest Service. 8 p., illus. (Leaf. 114L.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Cotton bollweevil survival and emergence in hibernation cages in Louisiana. R. C. Gaines, Bureau of Entomology and Plant Quarantine. 28 p., illus. (T. B. 486T.) Price, 5¢.

Early developmental stages of nematodes occurring in swine. Joseph E. Alicata, Bureau of Animal Industry. 96 p., illus. (T. B. 489T.) Price, 15¢.

Farm prices of cotton related to its grade and staple length in the United States, seasons 1928-29 to 1932-33. L. D. Howell and John S. Burgess, Jr., Bureau of Agricultural Economics, in cooperation with the Agricultural Experiment Stations of Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas. 63 p. (T. B. 493T.) Price, 10¢.

The cannibalistic habits of the corn ear worm. George W. Barber, Bureau of Entomology and Plant Quarantine. 19 p., illus. (T. B. 499T.) Price, 5¢.

Biology of the primary screw worm fly, *Cochliomyia americana*, and a comparison of its stages with those of *C. macellaria*. E. W. Laake, Emory C. Cushing, and H. E. Parish, Bureau of Entomology and Plant Quarantine. 24 p., illus. (T. B. 500T.) Price, 10¢.

Relation between the physical properties and chemical components of various grades of geraniol and their attractiveness to the Japanese beetle. F. W. Metzger and W. W. Maines, Bureau of Entomology and Plant Quarantine. 14 p., illus. (T. B. 501T.) Price, 5¢.

The chemical and physical properties of dry-land soils and of their colloids. Irvin C. Brown and Horace G. Byers, Bureau of Chemistry and Soils. 56 p., illus. (T. B. 502T.) Price, 10¢.

Orius insidiosus (Say), an important natural enemy of the corn ear worm. G. W. Barber, Bureau of Entomology and Plant Quarantine. 24 p., illus. (T. B. 504T.) Price, 5¢.

Refrigeration of oranges in transit from California. C. W. Mann and William C. Cooper, Bureau of Plant Industry. 88 p., illus. (T. B. 505T.) Price, 15¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Food habits of common hawks. W. L. McAtee, Bureau of Biological Survey. 36 p., illus. (Cir. 370C.) Price, 5¢.

New equipment for obtaining host material for the mass production of *Trichogramma minutum*, an egg parasite of various insect pests. Herbert Spencer, Luther Brown, and Arthur M. Phillips, Bureau of Entomology and Plant Quarantine. 18 p., illus. (Cir. 376C.) Price, 5¢.

Shipmast locust, a valuable undescribed variety of *Robinia pseudoacacia*. Oran Raber, Bureau of Plant Industry. 8 p., illus. (Cir. 379C.) Price, 5¢.

Rodents and moles as pests in bulb plantings. Theo. H. Scheffer and F. E. Garlough, Bureau of Biological Survey. 16 p., illus. (Cir. 381C.) Price, 5¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

The Food and Drug Administration of the United States Department of Agriculture. (M. P. 48MP., rev.) Price, 5¢.

Lantern slides and film strips of the United States Department of Agriculture. Extension Service. 18 p. (M. P. 72MP., rev.) Price, 5¢.

Motion pictures of the United States Department of Agriculture. Prepared by Division of Motion Pictures, Extension Service. 38 p. (M. P. 227MP.) Price, 5¢.

List of bulletins of the agricultural experiment stations for the calendar years 1933 and 1934. Catherine E. Pennington, Office of Experiment Stations. 81 p. (M. P. 232MP.) Price, 10¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Amendment of regulations 4, 18, and 19 of the regulations respecting game animals, land fur-bearing animals, game birds, nongame birds, and nests and eggs of birds in Alaska. 3 p. (Alaska G. C. Cir. 12, Supp. 1.)¹

Bureau of Animal Industry, Service and Regulatory Announcements. December 1935. Pp. 171-178. (S. R. A.-B. A. I. 344.) Price, 5¢.²

Bureau of Animal Industry, Service and Regulatory Announcements. Index, January-December 1935. Pp. 179-182. Price, 5¢.²

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 175-199. (N. J., F. D. 24351-24400). Price, 5¢.²

Pink bollworm quarantine. Quarantine no. 52, revision of quarantine and regulations. Effective December 5, 1935. Bureau of Entomology and Plant Quarantine. 8 p. (B. E. P. Q.-Q 52).¹

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area.

Indiana, Ohio and Switzerland Counties. (No. 37, series 1930.) 60 p., illus. Price, 30¢.

Mississippi, Greene County. (No. 5, series 1932.) 42 p., illus. Price, 40¢.

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² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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Farmers' Bulletins	Leaflets	Other publications

OTHER PUBLICATIONS

Drive safely. William G. Eliot 3d. Bureau of Public Roads. illus. [Folder.]¹
Soil conservation and wildlife. Soil Conservation Service. 6 p., illus.¹

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 20, no. 2, February 1, 1936. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.²

Crops and markets. Vol. 13, no. 1, January 1936. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.²

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.²

Experiment station record. Vol. 74, no. 2, February 1936. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.²

A technical view of the world's scientific literature pertaining to agriculture.

Extension service review. Vol. 7, no. 1, January; no. 2, February 1936. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.²

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$3.25 a year domestic; \$4.75 a year foreign. Each issue, 15¢ domestic; 20¢ foreign. Reprints, 5¢ domestic; 8¢ foreign.² Not distributed free to individuals.

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Journal of agricultural research—Continued.

— Vol. 51, no. 8. October 15, 1935. Illus.

Contents:

- Factors involved in the application of form-class volume tables (F-72). C. Edward Behre.
- The relationship of certain legume mosaics to bean (G-981). W. J. Zaumeyer and B. L. Wade.
- Random sampling and the distribution of phenotypes on ears of backcrossed maize (G-985). George F. Sprague.

— Vol. 51, no. 9, November 1, 1935. Illus.

Contents:

- Intergeneric hybrids of *Triticum* and *Secale* with *Haynaldia villosa* (G-984). W. J. Sando.
- A cytological study of *Puccinia malvacearum* from the sporidium to the teliospore (G-980). Ruth F. Allen.
- Physiologic specialization of *Melampsora lini* on *Linum usitatissimum* (G-983). H. H. Flor.
- Intracapsular bolls in Asiatic cotton (G-986). R. E. Beckett.
- A method for estimating the volatile sulphur content and pungency of onions (N. Y. (Cornell)-31). Hans Platenius.

— Vol. 51, no. 10. November 15, 1935. Illus.

Contents:

- Histology of the caryopsis of yellow dent corn, with reference to resistance and susceptibility to kernel rots (G-973). Helen Johann.
- Influence of weather factors on moisture content of light fuels in forests of the northern Rocky Mountains (F-73). George M. Jemison.
- The effect of direction of illumination upon the visibility of a smoke column (F-75). Charles C. Buck and Wallace L. Fons.
- Toxicity of aluminum salts to tobacco plants (Mass.-44). Walter S. Eisenmenger.
- Distribution and effect of petroleum oils and kerosenes in potato, cucumber, turnip, barley, and onion (Mont.-24). Paul A. Young.
- The development of the cotton embryo (Tex.-12). R. G. Reeves and J. O. Beasley.
- The chromosome number in *Gladiolus* (Md.-6). Ronald Bamford.

Monthly weather review. Vol. 63, no. 11, November 1935. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.² Not for general distribution.

Contain (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary and (3) climatological tables.

Public roads. Vol. 16, no. 11, January 1936. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.²

Soil conservation. Vol. 1, no. 7, February 1936. Price, 10¢ a copy; \$1.00 per year, domestic.²

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

Weekly weather and crop bulletin. Nos. 5-8, Feb. 4-25, 1936. Price, 50¢ a year, domestic; \$1 a year, foreign.²

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Timothy-seed production. Morgan W. Evans, Bureau of Plant Industry. 8 p., illus. (Leaf. 115L.) Price, 5¢.

Many factors determine the use made of the timothy crop. When rainfall delays harvesting a crop intended for hay, it is then harvested for seed. When the price of hay becomes low, some of the timothy acreage is harvested for seed.

DEPARTMENT BULLETINS

The Department Bulletins are technical or scientific in nature and apply to a special crop, industry, or locality. This series ends with no. 1500, and is succeeded by the Technical Bulletin series. The editions are limited.

The Chinese jujube. C. C. Thomas, Bureau of Plant Industry. 15 p., illus. (D. B. 1215DB., rev.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Effects of gin-saw speed and seed-roll density on quality of cotton lint and operation of gin stands. Charles A. Bennett, Bureau of Agricultural Engineering, and Francis L. Gerdes, Bureau of Agricultural Economics. 40 p., illus. (T. B. 503T.) Price, 10¢.

These tests were conducted because ginning time per bale per fixed number of gin saws has an important effect on the quality of the resultant ginned lint, and because misunderstanding prevails as to what factors influence the rate of ginning.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Dust explosions during fire fighting. David J. Price, Bureau of Chemistry and Soils. 10 p., illus. (Cir. 385C.) Price, 5¢.

This circular has been prepared to assist firemen in preventing dust explosions during fire fighting and thereby enable them to fight fires with greater safety and protection.

The Glovel tomato. William S. Porte, Bureau of Plant Industry; H. S. Wolfe and W. M. Fifield, Florida Agricultural Experiment Station. 6 p., illus. (Cir. 388C.) Price, 5¢.

The primary purpose in developing the Glovel tomato was to produce a scarlet-red (pink) fruited variety having the disease-resistant characteristics of Marvel combined with the fruit qualities of Globe for markets and consumers that prefer a pink-fruited tomato variety instead of a red one like Marglobe.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Traps for the Japanese beetle and how to use them. F. W. Metzger, Bureau of Entomology and Plant Quarantine. 12 p., illus. (M. P. 201MP., rev.) Price, 5¢.

Forest trees and forest regions of the United States. Wilbur R. Mattoon, Forest Service. 55 p., illus. (M. P. 217MP.) Price, 15¢.

Presents in simple form the names of all the tree species of continental United States with their geographic ranges and a few distinguishing characteristics of each. Gives brief descriptions of the various natural forest regions, together with the names of the principal trees which make up each region in the United States, Alaska, Puerto Rico, and Hawaii.

Development and significance of the great soil groups of the United States. Charles E. Kellogg, Bureau of Chemistry and Soils. 40 p., illus. (M. P. 229MP.) Price, 25¢.

Attention is directed toward a discussion of those principles of broad implication. Should the reader require more specificity, the detailed reports of surveys and researches must be consulted.

List of technical workers in the Department of Agriculture and outline of Department functions, 1935. Compiled in the Office of Personnel and Business Administration. 132 p. (M. P. 233MP.) Price, 15¢.

Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations, 1935-36. Mary A. Agnew, Office of Experiment Stations. 133 p. (M. P. 234MP.) Price, 15¢.

STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

Grade, staple length, and tenderability of cotton in the United States, 1928-29 to 1933-34. Bureau of Agricultural Economics, in cooperation with State agricultural agencies. 122 p., illus. (S. B. 52S.) Price, 10¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Rules and regulations of the Secretary of Agriculture under the Tobacco Inspection Act. Bureau of Agricultural Economics. (S. R. A.-B. A. E. 149.) 9 p.¹

Bureau of Animal Industry, Service and Regulatory Announcements. January 1936. Pp. 1-13. (S. R. A.-B. A. I. 345.) February 1936. Pp. 15-24. (S. R. A.-B. A. I. 346.) Price, 5¢ each.²

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 237-277. (N. J., F. D. 24501-24550.)¹

Standards under the Tea Act. Service and Regulatory Announcements, Tea No. 10. Food and Drug Administration. 1 p. (S. R. A., T. no. 10.)¹

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area.

Michigan, Montmorency County. (No. 39, series 1930.) 48 p., illus. Price, 35¢.

New York, Chemung County. (No. 3, series 1932.) 42 p., illus. Price, 30¢.

Oklahoma, Le Flore County. (No. 15, series 1931.) 38 p., illus. Price, 30¢.

Texas, Scurry County. (No. 13, series 1931.) 45 p., illus. Price, 30¢.

OTHER PUBLICATIONS

Report of the Chief of the Weather Bureau, 1934-35. W. R. Gregg. 161 p. Price, \$1.50 (buckram). For sale only.

Report of the Hawaii Agricultural Experiment Station, 1935. 28 p., illus. Price, 5¢.

¹ These may be obtained from the issuing bureau.

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Indicate below, by numbers **IN NUMERICAL ORDER**, bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelope to United States Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications. If more are desired please apply to Superintendent of Documents. Government Printing Office, Washington, D. C., enclosing remittance to cover cost of publication. Be sure to fill in blank form on reverse side.

Farmers' Bulletins	Leaflets	Other publications

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 20, no. 3, March 1, 1936. Price, 5¢ a copy; 25¢ a year, domestic; 45¢ a year, foreign.²

Crops and markets. Vol. 13, no. 2, February 1936. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.²

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.²

Experiment station record. Vol. 74, no. 3, March 1936. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.¹

A technical view of the world's scientific literature pertaining to agriculture.

Extension service review. Vol. 7, no. 3, March 1936. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 90¢ a year, foreign.²

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$3.25 a year, domestic; \$4.75 a year, foreign. Each issue, 15¢, domestic; 20¢, foreign. Reprints, 5¢, domestic; 8¢, foreign.² Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 51, no. 11. December 1, 1935. Illus.

Contents:

Evidence of virus mutation in the common mosaic of tobacco (G-989). H. H. McKinney.

Root development of pitch pine, with some comparative observations on short-leaf pine (F-74). William Everett McQuilkin.

The identification of certain viruses affecting leguminous plants (Idaho-13). W. H. Pierce.

The vitamin A, B, C, D, and G content of the outer green leaves and the inner bleached leaves of Iceberg lettuce (T-8). Hazel E. Munsell and Hary H. Kennedy.

— Vol. 51, no. 12, December 15, 1935. Illus.

Contents:

Interspecific hybridization in *Gossypium* and the meiotic behavior of F₁ plants (G-988). J. M. Webber.

Occurrence of selenium in natural phosphates, superphosphates, and phosphoric acid (E-65). Lewis F. Rader, Jr., and W. L. Hill.

Root systems of certain trees and shrubs grown on prairie soils (N. Dak.-10). A. F. Yeager.

¹ These may be obtained from the issuing bureau.

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

OFFICIAL BUSINESS

(3-36)

Journal of agricultural research. Vol. 51, no. 12, December 15, 1935. Illus.

Contents—Continued.

- Germination studies on aged and injured seeds (N. Dak.—11). O. A. Stevens.
- The nutritive value of skim-milk powders, with special reference to the sensitivity of milk proteins to heat (Ill.—62). B. W. Fairbanks and H. H. Mitchell.
- Evaluation of length measurement in an experiment with apple trees (Mich.—27). F. C. Bradford and Lloyd E. Joley.
- The determination and importance of the condition of the firm albumen in studies of egg-white quality (N. Y. (Cornell)—32). A. Van Wagenen and H. S. Wilgus, Jr.
- The determination of spray coverage on apples (Wash.—23). Kermit Groves and James Marshall.

——— Vol. 52, no. 1, illus. January 1, 1936.

Contents:

- Reaction of oat varieties to physiologic races of loose and covered smuts of red oats (G-992). George M. Reed and T. R. Stanton.
- Chemical composition of juice from Louisiana sugarcane injured by the sugarcane borer and the red rot disease (G-991). Nelson McKaig, Jr., and C. A. Fort.
- Inheritance of some major color types in beets (G-996). Wesley Keller.
- The relation of pauses to rate of egg production (Calif.—73). I. Michael Lerner and Lewis W. Taylor.
- The effect of homogenization on some of the characteristics of milk fat (Mich.—28). I. A. Gould and G. M. Trout.
- Periderm and cortex color inheritance in the potato (Minn.—94). F. A. Krantz and Harold Mattson.
- The effect of calcium carbonate and sodium bicarbonate on the toxicity of gossypol (Okla.—24). Willis D. Gallup and Ruth Reder.
- Apparatus and procedure for separating cotton root rot sclerotia from soil samples (Tex.—13). C. H. Rogers.

——— Vol. 52, no. 2. Illus. January 15, 1936.

Contents:

- Modification of a Mendelian ratio in maize by pollen treatments (G-995). J. H. Kempton.
- Widespread occurrence and origin of fatuoids in Fulghum oats (G-994). F. A. Coffman and J. W. Taylor.
- The relationship of the phosphate concentration of solution cultures to the type and size of root systems and the time of maturity of certain plants (Ala.—15). Anna L. Sommer.
- The effects of low-phosphorus rations on growing pigs (Kans.—78). C. E. Aubel, J. S. Hughes, and H. F. Lienhardt.

Monthly weather review. Vol. 63, no. 12, December 1935. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.² Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 16, no. 12, February 1936; vol. 17, no. 1, March 1936. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.²

Soil conservation. Vol. 1, no. 8, March 1936. Price, 10¢ a copy; \$1 a year, domestic.²

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

Weekly weather and crop bulletin. Nos. 9-13, March 3-31, 1936. Price, 50¢ a year, domestic; \$1 a year, foreign.²

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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MONTHLY LIST OF PUBLICATIONS

APRIL 1936

Any five of the nontechnical publications listed herein, unless indicated "For sale only", may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Selection of lumber for farm and home building. C. V. Sweet and R. P. A. Johnson, Forest Service. 46 p., illus. (F. B. 1756F.) Price, 5¢.

Meets the need and demand for a simple, straightforward classification of wood, especially at this time of greatly increased building activity. The classification is simple and applies to average typical conditions under which wood serves in a particular use. No attempt has been made to draw fine distinctions between woods. Neither is it to be inferred that all woods in the same class are equally suitable.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

The flour beetles of the genus *Tribolium*. Newell E. Good, Bureau of Entomology and Plant Quarantine. 58 p., illus. (T. B. 498T.) Price, 10¢.

These insects are very hardy and able to subsist on any of a wide variety of foodstuffs, and through a world-wide commerce have been transported to regions which otherwise they might never have reached. Thus there are today not only records of their occurrence but numerous references to their destructiveness from practically every civilized country in the world.

The cooking quality, palatability, and carbohydrate composition of potatoes as influenced by storage temperature. R. C. Wright, Walter M. Peacock, and T. M. Whiteman, Bureau of Plant Industry; and Elizabeth Fuller Whiteman, Bureau of Home Economics. 20 p. (T. B. 507T.) Price, 5¢.

These tests included baking, boiling, steaming, chip making, and French frying various lots of potatoes and carefully judging the resultant products as to flavor, appearance, and other important characteristics. In the last lot of potatoes to be studied, periodic samples were taken for carbohydrate analyses.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Speeding up flowering in the daffodil and the bulbous iris. David Griffiths, Bureau of Plant Industry. 18 p., illus. (Cir. 367C.) Price, 5¢.

This report contains an account of a few selected experiments which demonstrate the behavior of stocks subjected to the treatments designed to flower them early or preserve them for opening later than the dates at which it is customary to flower them when planted at the usual season.

Erosion control on mountain roads. Charles J. Kraebel, Forest Service. 45 p., illus. (Cir. 380C.) Price, 10¢.

The purpose of this circular is threefold: (1) To call attention to the seriousness of the problem; (2) to indicate preventive measures which can be incorporated in the planning and building of roads; and (3) to describe corrective measures which are applicable particularly to California conditions.

Market classes and grades of lambs and sheep. L. B. Burk, C. E. Gibbons, and M. T. Foster, Bureau of Agricultural Economics. 35 p., illus. (Cir. 383C.) Price, 10¢.

A well-defined and all-inclusive set of standards for classifying and grading sheep and lambs. Trading would be seriously hampered, and fraught with misunderstandings and misconceptions on the part of the interests involved were it not for definite standards set forth by the Government.

Making and using peanut butter. W. R. Beattie, Bureau of Plant Industry. 14 p., illus. (Cir. 384C.) Price, 5¢.

This publication discusses the manufacture of peanut butter from the roasting operation through its successive stages to the finished product. Included are many recipes showing the wide range of uses of peanut butter.

New sugar-beet varieties for the curly-top area. Bureau of Plant Industry. 5 p., illus. (Cir. 391C.) Price, 5¢.

The partial control of curly top through the use of the resistant varieties here described will permit the continuance of the beet industry in many regions where its existence has been threatened. Moreover it will now be possible for sugar-beet growing to be resumed in large areas from which the industry has been driven by the disease.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Forecasting from synoptic weather charts. Richard Hanson Weightman, Weather Bureau. 47 p., illus. (M. P. 236MP.) Price, 5¢.

This publication has been prepared primarily to serve the needs of those who have a working knowledge of meteorology and are beginning to make deductions from synoptic weather charts. It is not a complete treatment of the subject nor does it contain any new principles.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Bureau of Animal Industry, Service and Regulatory Announcements. March 1936. Pp. 25-33. (S. R. A.—B. A. I.) Price, 5¢ each.¹

Bureau of Entomology and Plant Quarantine, Service and Regulatory Announcements. October-December 1935. Pp. 71-104. (S. R. A.—B. E. P. Q. no. 125.)¹

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 201-236. (N. J., F. D. 24401-24500). Foods; pp. 279-307 (N. J., F. D. 24551-24625). Foods; pp. 309-362. (N. J., F. D. 24626-24700). Drugs; pp. 363-404. (N. J., F. D. 24701-24800). Foods. Price, 5¢ each.²

Notices of judgment under the Insecticide Act. Food and Drug Administration. Pp. 229-258. (N. J., I. F. 1376-1425).¹

SOIL SURVEYS

These reports consist of two parts: (1) a soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Michigan, Oscoda County. (No. 20, series 1931.) 42 p., illus. Price, 30¢.

Minnesota, Hubbard County. (No. 38, series 1930.) 33 p., illus. Price, 30¢.

South Carolina, Dillon County. (No. 17, series 1931.) 54 p., illus. Price, 35¢.

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Farmers' Bulletins	Leaflets	Other publications

OTHER PUBLICATIONS

Parasites and parasitic diseases of swine in Puerto Rico. H. L. Van Volkenberg. 14 p., illus. (P. R. Bull. 38.) Price, 5¢.

The most serious diseases affecting swine in Puerto Rico seem to be hog cholera, intestinal disorders (enteritis), and parasitic infestations. This publication describes the internal and external parasites and gives, in addition to preventive measures, methods for treating the swine infested with parasites.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 20, no. 4, April 1, 1936. Price, 5¢ a copy ; 25¢ a year, domestic ; 45¢ a year, foreign.²

Crops and markets. Vol. 13, no. 3, March 1936. Price, 10¢ a copy ; \$1.00 a year, domestic ; \$1.50 a year, foreign.²

Statistics concerning crops and livestock estimates and market information ; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products ; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year ; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.²

Experiment station record. Vol. 74, no. 4, April 1936. Price, \$1 per volume (2 volumes a year), consisting of 6 monthly numbers and index ; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.²

A technical view of the world's scientific literature pertaining to agriculture.

Extension service review. Vol. 7, no. 4, April 1936. Illus. Price, 5¢ a copy ; 50¢ a year, domestic ; 90¢ a year, foreign.²

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$3.25 a year, domestic ; \$4.75 a year, foreign. Each issue, 15¢ domestic ; 20¢ foreign. Reprints, 5¢ domestic ; 8¢ foreign.² Not distributed free to individuals.

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OFFICIAL BUSINESS

4-36

Journal of agricultural research (Cont.)

— Vol. 52, no. 3, February 1, 1936. Illus.

Contents:

- Life history of *Agamermis decaudata*, a nematode parasite of grasshoppers and other insects (G-990). J. R. Christie.
Chromosome differences in a wheat-rye amphidiploid (G-997). V. H. Florell.
Phytophthora rot of sugar beet (Calif.-74). C. M. Tompkins, B. L. Richards, C. M. Tucker, and M. W. Gardner.
Histological study of tissues from greenhouse tomatoes affected by blotchy ripening (Mich.-29). H. L. Seaton and G. F. Gray.
The progress of the distribution of salt in ham during the curing process (Pa.-53). R. C. Miller and P. T. Ziegler.
The effect of freezing on the physical and microscopic character of gels of corn and wheat starches (Ill.-61). Sybil Woodruff and Henrietta Hayden.

— Vol. 52, no. 4, February 15, 1936. Illus.

Contents:

- Water soaking of leaves in relation to development of the wildfire disease of tobacco (G-993). E. E. Clayton.
Behavior of the ordinary tobacco mosaic virus in the soil (Wis.-75). Ismé A. Hoggan and James Johnson.
Growth, chemical composition, and efficiency of normal and mosaic potato plants in the field (Vt.-6). Winona E. Stone.
Origin and production of morphologic and pathogenic strains of the oat smut fungi by mutation and hybridization (G-998). C. S. Holton.

— Vol. 52, no. 7, April 1, 1936. Illus.

Contents:

- The effect of different colloidal soil materials on the toxicity of calcium arsenate to millet (E-66). Philip L. Gile.
The effectiveness of various arsenicals in destroying larvae of the Japanese beetle in Sassafras sandy loam (K-265). Walter E. Fleming and Francis E. Baker.
Errors of routine analysis for percentage of sucrose and apparent purity coefficient with sugar beets taken from field experiments (G-1000). F. R. Immer and E. L. LeClerg.
Availability of the copper of bordeaux mixture residues and its absorption by the conidia of *Sclerotinia fructicola* (G-1002). M. C. Goldsworthy and E. L. Green.
Inheritance of chlamydospore characteristics in oat smut fungi (G-1003). C. S. Holton.
Penetration of *Trichoderma lignorum* into sapwood of *Pinus taeda* (G-1007). Mae Spradling.
Relative resistance to bacterial wilt of certain commercial and selected lots of alfalfa (G-1008). J. L. Welmer and B. A. Madson.

Monthly weather review. Vol. 64, no. 1, January 1936. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.² Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

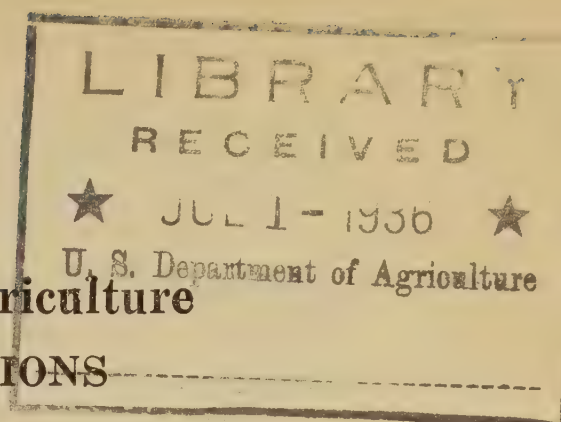
Soil conservation. Vol. 1, no. 9, April 1936. Price, 10¢ a copy; \$1 a year, domestic.²

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

Weekly weather and crop bulletin. Nos. 14-17, April 7-28, 1936. Price, 50¢ a year, domestic; \$1 a year, foreign.²

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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United States Department of Agriculture

MONTHLY LIST OF PUBLICATIONS

MAY 1936

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FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Celery growing. W. R. Beattie, Bureau of Plant Industry. 46 p., illus. (F. B. 1269F., rev.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Growth and survival of deciduous trees in shelter-belt experiments at Mandan, N. Dak., 1915-34. Ernest J. George, Bureau of Plant Industry. 48 p., illus. (T. B. 496T.) Price, 5¢.

Deals with shelter-belt combination experiments with broadleaf trees begun in 1915. These were set out as representative of typical shelterbelts which it was expected would be established on farms in connection with the cooperative demonstration shelterbelt project.

Positions of seeds and motes in locks and lengths of cotton fibers from bolls borne at different positions on plants at Greenville, Tex. Dow D. Porter, Bureau of Plant Industry. 14 p., illus. (T. B. 509T.) Price, 5¢.

Fills the need for specific information in regard to the number of motes in different varieties, their positions in the locks, the number of mature seeds in locks, length of fiber on motes and on seeds, and the possible correlation of number of mature seeds in locks and the length of lint.

Cotton fabrics as affected by variations in pressure and in length of exposure during ironing. K. Melvina Downey and Ruth E. Elmquist, Bureau of Home Economics. 32 p., illus. (T. B. 517T.) Price, 5¢.

The proper finishing of cotton fabrics involves a knowledge of the effect of such factors as temperature, applied mechanical pressure, and time of contact with the heated surface. The present study is an initial attempt to evaluate the combined result of these variables upon cotton fabrics of known history.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Tulips. David Griffiths, Bureau of Plant Industry. 64 p., illus. (Cir. 372C.) Price, 10¢.

This circular shows how to produce high-quality tulip stocks, and why the domestic bulbs should be and are the equal of any.

The wax moth and its control. Warren Whitcomb, Jr., Bureau of Entomology and Plant Quarantine. 14 p., illus. (Cir. 386C.) Price, 5¢.

Discusses the economic importance of the wax moth, including losses caused by it and benefits derived from its destructiveness. Gives the life history of the insect and recommendations for its control.

Analysis of open commitments in wheat and corn futures on the Chicago Board of Trade, September 29, 1934. D. B. Bagnell, Grain Futures Administration. 20 p. Illus. (Cir. 397C.) Price, 5¢.

This investigation was in the form of cross-section analyses or surveys. Information was obtained as to the class, geographical locations, and the market position of the various individuals, firms, and corporations holding open contracts on the dates mentioned.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Development and use of standards for grade, color, and character of American cotton linters. Guy S. Meloy, Bureau of Agricultural Economics. 12 p. (M. P. 242MP.) Price, 5¢.

Defines cotton linters and the terms used in the industry. Describes the standards and gives rules used in connection with their use.

STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

Carlot shipments and unloads of nineteen important fruits and vegetables for the calendar years 1933 and 1934. Bureau of Agricultural Economics. 206 p. (S. B. 53S.) Price, 15¢.

Information contained supplements that in Statistical Bulletin 46, Car-Lot Shipments and Unloads of Important Fruits and Vegetables for the Calendar Years 1931 and 1932, and is based on reports secured by the market news service of the Division of Fruits and Vegetables, Bureau of Agricultural Economics.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Revision of standards for grades of American upland cotton. Bureau of Agricultural Economics. (S. R. A.-B. A. E. 150.) 10 p.¹

Regulations governing the meat inspection of the United States Department of Agriculture. Amendment to Regulation 18, B. A. I. Order 211, revised. Bureau of Animal Industry. 1 p. (Amdt. 10 to B. A. I. Order 211, rev.)¹

Bureau of Animal Industry, service and regulatory announcements. May 1936. pp. 35-45. (S. R. A.-B. A. I. 348.) Price, 5¢ each.²

Modification of Dutch elm disease quarantine regulations. Revision of Regulation 3. Effective April 1, 1936. Bureau of Entomology and Plant Quarantine. 2 p. (B. E. P. Q-Q. 71.)¹

Notices of judgment under the Caustic Poison Act. Food and Drug Administration. 4 p. (N. J. C. P. 34-40).¹

Notices of judgment under the Food and Drugs Act. Index to nos. 10001-20000. Food and Drug Administration. 195 p.¹

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area.

Louisiana, Livingston Parish. (No. 22, series 1931.) 35 p., illus. Price, 30¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 20, no. 5, May 1, 1936. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.²

Crops and markets. Vol. 13, no. 4, April 1936. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.²

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

¹ These may be obtained from the issuing bureau.

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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Farmers' Bulletins	Leaflets	Other publications

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.²

Extension service review. Vol. 7, no. 5, May 1936. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.²

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$3.25 a year, domestic; \$4.75 a year, foreign. Each issue, 15¢, domestic; 20¢, foreign. Reprints, 5¢, domestic; 8¢, foreign.² Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

Journal of agricultural research. Vol. 52, no. 5, March 1, 1936. Illus.

Contents:

- Some storage diseases of grapefruit (G-987). Charles Brooks and Lacy P. McColloch.
- Extent of vertical migration of horse strongyle larvae in soils of different types (A-168). John T. Lucker.
- Zinc and other mineral constituents in relation to the rosette disease of pecan trees (Ariz.-10). A. H. Finch.
- The isolation of a hemophilic bacillus in pure culture and the reaction of chickens to extranasal inoculations thereof (R. I.-4.). J. P. Delaplane, L. E. Erwin, and H. O. Stuart.
- Chromosome behavior in blackberry-raspberry hybrids (Tex.-14). S. H. Yarnell.

Vol. 52, no. 6. March 15, 1936. Illus.

Contents:

- Black chaff disease of wheat (G-1001). R. H. Bamberg.
- Three blue-staining fungi, including two new species, associated with bark beetles (G-999). Caroline T. Rumbold.
- Relation of accessory growth substances to heavy metals, including molybdenum, in the nutrition of *Aspergillus niger* (G-1004). Robert A. Steinberg.
- Chrysis shanghaiensis* Smith, a parasite of the oriental moth (K-264). D. E. Parker.
- The influence of varying amounts of water-soluble phosphorus in different soil types on the response of cultivated crops (Fla.-19). O. C. Bryan and W. M. Neal.
- The function of copper in soils and its relation to the availability of iron and manganese (N. C.-32). L. G. Willis and J. R. Piland.

Vol. 52, no. 8, April 15, 1936. Illus.

Contents:

- Influence of temperature and other factors on the morphology of the wheat seedling (G-1005). J. W. Taylor and M. A. McCall.
- Crown and root development in wheat varieties (G-1006). R. B. Webb and D. E. Stephens.
- Certain insect vectors of *Aplanobacter stewarti* (K-266). F. W. Poos and Charlotte Elliott.
- Growth inhibition in the potato caused by a gas emanating from apples (Kans.-79). O. H. Elmer.

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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Journal of agricultural research. Vol. 52, no. 8, April 15, 1936. Illus.

Contents—Continued.

Seed germination in *Lobelia* with special reference to the influence of light on *Lobelia inflata* (N. Y. (Cornell)—34). W. C. Muenscher.

Time interval between eggs of Rhode Island Red pullets (Mass.—45). F. A. Hays.

Accuracy of the determination of lead and arsenic on apples (Pa.—54). Donald E. H. Frear and W. S. Hodgkiss.

Monthly weather review. Vol. 63, 1935. Table of contents and index; vol. 64, no. 2, February 1936. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.² Not for general distribution.

Contain (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 17, no. 2, April; no. 3, May 1936. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.²

Soil conservation. Vol. 1, no. 10, May 1936. Price, 10¢ a copy; \$1 per year, domestic.²

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

Weekly weather and crop bulletin. Nos. 18-22, May 5-26, 1936. Price, 50¢ a year, domestic; \$1 a year, foreign.²

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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United States Department of Agriculture
MONTHLY LIST OF PUBLICATIONS

JUNE 1936

Any five of the nontechnical publications listed herein, unless indicated "For sale only", may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

The home production of onion seed and sets. W. R. Beattie, Bureau of Plant Industry. 20 p., illus. (F. B. 434 F., rev.) Price, 5¢.

Diseases and parasites of poultry. John S. Buckley, Hubert Bunyea, and Eloise B. Cram, Bureau of Animal Industry. 70 p., illus. (F. B. 1652F., rev.) Price, 10¢.

LEAFLETS

The series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Growing the Jerusalem artichoke. Victor R. Boswell, Bureau of Plant Industry. 8 p. (Leaf. 116L.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Variations in naval-stores yields associated with weather and specific days between clippings. V. L. Harper and Lenthall Wyman, Forest Service. 35 p., illus. (T. B. 510T.) Price, 5¢.

Determination of the influence of various weather factors on gum yield should aid substantially in fundamental research in gum formation and flow, particularly as related to dry facing and as affected by insect attacks, defoliation by fire, and chipping methods.

Irrigated crop rotations in western Nebraska, 1912-34. Stephen H. Hastings, Bureau of Plant Industry. 36 p., illus. (T. B. 512T.) Price, 5¢.

This bulletin is devoted to a presentation of the results of a comprehensive series of rotation experiments conducted at the Scotts Bluff (Nebr.) Field Station. In view of the fact that the results cover a 23-year period, they make a substantial contribution to the knowledge of the crops and rotational practices best adapted to maintain or increase crop yields.

Further experiments on the control of barley smuts. R. W. Leukel, Bureau of Plant Industry. 12 p. (T. B. 513T.) Price, 5¢.

The recent development of new fungicidal dusts, some of which were effective in controlling barley stripe and black loose smut, made it seem desirable to continue experiments on the control of covered smut with dust fungicides.

Studies of the culture and certain varieties of the Jerusalem artichoke. Victor R. Boswell, C. E. Steinbauer, and M. F. Babb, Bureau of Plant Industry; W. L. Burlison, Illinois Agricultural Experiment Station; W. H. Alderman, Minnesota Agricultural Experiment Station; and H. A. Schoth, Bureau of Plant Industry, cooperating with the Oregon Agricultural Experiment Station. 70 p. (T. B. 514T.) Price, 10¢.

Since the history, description, and present uses of the Jerusalem artichoke are extensively treated in a previous publication, the present bulletin deals chiefly with the cooperative experiments and their relation to crop production.

Species of Capillaria parasitic in the upper digestive tract of birds. Eloise B. Cram, Bureau of Animal Industry. 28 p., illus. (T. B. 516T.) Price, 5¢.

Data concerning natural cases and experimentally produced cases of infestation are presented, including observations on the life history and pathogenicity of the parasites. Nine additional species are also considered.

Transit and storage diseases of fruits and vegetables as affected by initial carbon dioxide treatments. Charles Brooks, C. O. Bratley, and L. P. McColloch, Bureau of Plant Industry. 24 p. (T. B. 519T.) Price, 5¢.

This bulletin reports experiments in which initial gas treatments were used as a supplement to ice refrigeration and gives a discussion of the benefits and limitations of such treatments.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Distribution of the Argentine ant in the United States and suggestions for its control or eradication. M. R. Smith, Bureau of Entomology and Plant Quarantine. 40 p., illus. (Cir. 387C.) Price, 5¢.

Production of sauer rüben. Harry E. Goresline and Lawrence H. James, Bureau of Chemistry and Soils. 10 p., illus. (Cir. 389C.) Price, 5¢.

Variety tests of sugarcane in Louisiana during the crop year 1933-34 and summary of annual results 1926-34. George Arceneaux, I. E. Stokes, and C. C. Krumbhaar, Bureau of Plant Industry. 31 p., illus. (Cir. 395C.) Price, 5¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

The vertical drier for seed cotton. Charles A. Bennett, Bureau of Agricultural Engineering, and Francis L. Gerdes, Bureau of Agricultural Economics. 22 p., illus. (M. P. 239MP.) Price, 5¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Bureau of Animal Industry, Service and Regulatory Announcements. May 1936. Pp. 47-58. (S. R. A.-B. A. I. 349.) Price, 5¢.

Japanese beetle quarantine. Quarantine no. 48, revision of quarantine and regulations. Effective March 16, 1936. Bureau of Entomology and Plant Quarantine. 13 p. (B. E. P. Q.-Q 48).¹

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 405-416. (N. J., F. D. 24801-24825). Foods; pp. 417-453. (N. J., F. D. 24826-24925). Foods; pp. 455-484. (N. J., F. D. 24926-25000). Foods; pp. 1-11. (N. J., F. D. 25001-25025.) Foods.²

Notices of judgment under the regulations of the Naval Stores Act. Food and Drug Administration. 1 p. (N. J., N. S. No. 11).²

SOIL SURVEYS

These reports consist of two parts: (1) a soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Arizona, Tucson area. (No. 19, series 1931.) 60 p., illus. Price, 45¢.

Montana, the Gallatin Valley area. (No. 16, series 1931.) 36 p., illus. Price, 40¢.

North Carolina, Franklin County. (No. 21, series 1931.) 24 p., illus. Price 5¢.

Oklahoma, Craig County. (No. 24, series 1931.) 41 p., illus. Price, 35¢.

Virginia, Nansemond County. (No. 6, series 1932.) 39 p., illus. Price, 30¢.

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Farmers' Bulletins	Leaflets	Other publications

OTHER PUBLICATIONS

Average conditions of wind and weather, North Atlantic Ocean and West Indian waters. W. F. McDonald, Weather Bureau. 9 p. Price, 5¢.

Handbook of official hay standards, including straw standards. Bureau of Agricultural Economics. Revised effective April 1, 1936. Price, 5¢.

Highway bond calculations. Laurence I. Hewes, Bureau of Public Roads, and James W. Glover, University of Michigan. 51 p. Price, 10¢.

Index to Department Bulletins, nos. 1-1500. Mabel G. Hunt, Office of Information. 384 p. For sale only. Price, 25¢.

Plant material introduced by the Division of Plant Exploration and Introduction, Bureau of Plant Industry, January 1 to March 31, 1934 (nos. 103989-105035). 41 p. (Inventory 118.) Price, 5¢.

Regulations relating to game, land fur animals, and birds in Alaska, 1936-37. 32 p. (Alaska G. C. Cir. 13.) Price, 5¢.

Report of the Director of Finance, 1935. W. A. Jump. 22 p. Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 20, no. 6, June 1, 1936. Price, 5¢ a copy; 25¢ a year, domestic; 45¢ a year, foreign.¹

Crops and markets. Vol. 13, no. 5, June 1936. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.¹

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.¹

Experiment station record. Vol. 74, no. 5, May; no. 6, June 1936. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.¹

Extension service review. Vol. 7, no. 6, June 1936. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 90¢ a year, foreign.¹

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

² These may be obtained from the issuing bureau.

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Journal of agricultural research. Price, \$3.25 a year, domestic; \$4.75 a year, foreign. Each issue, 15¢, domestic; 20¢, foreign. Reprints, 5¢, domestic; 8¢, foreign.¹ Not distributed free to individuals.

——— Vol. 51. July 1–December 15, 1935. Title page, table of contents, and index. Pp. 1243–1252. Price, 5¢.¹

——— Vol. 52, no. 9, May 1, 1936. Illus.

Contents:

The diurnal cycle of the powdery mildew *Erysiphe polygoni* (G-1011). Cecil E. Yarwood.
Host range and physiologic specialization of red clover powdery mildew, *Erysiphe polygoni* (G-1012). Cecil E. Yarwood.
Chronic progressive pneumonia of sheep, with particular reference to its etiology and transmission (A-169). G. T. Creech and W. S. Gochenour.
Determination of the less refined mineral oils on leaf surfaces after spraying (K-267). L. H. Dawsey.
Inheritance of resistance to the hessian fly in the wheat crosses Dawson × Poso and Dawson × Big Club (K-268). W. B. Cartwright and G. A. Wiebe.
Quantitative demonstration of the presence of spores of bacillus larvae in honey contaminated by contact with American foulbrood (K-269). A. P. Sturtevant.
The toxic effects of naphthalene on *Bruchus obtectus* and *Tenebrio molitor* in various stages of development (N. Y. (Cornell)–33). Louis Pyenson and G. F. MacLeod.
Some environmental factors influencing the development of hairy root on apple (Wis.-76) A. J. Riker, D. H. Palmiter, and E. M. Hildebrand.

——— Vol. 52, no. 10. May 15, 1936. Illus.

Contents:

Physiological changes in the rind of California oranges during growth and storage (G-1009). E. M. Harvey and G. L. Rygg.
Field and storage studies on changes in the composition of the rind of the Marsh grapefruit in California (G-1010). E. M. Harvey and G. L. Rygg.
The honeybee and the beehive in relation to fire bright (N. Y. (Cornell)–35). E. M. Hildebrand and E. F. Phillips.

Monthly weather review. Vol. 64, no. 3, March 1936. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Public roads. Vol. 17, no. 4; June 1936. Price, 10¢ a copy; \$1 a year; \$1.50 a year, foreign.¹

Soil conservation. Vol. 1, no. 11, June 1936. Price, 10¢ a copy; \$1.00 per year, domestic.¹

Weekly weather and crop bulletin. Nos. 22–26, June 2–30, 1936. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

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United States Department of Agriculture
MONTHLY LIST OF PUBLICATIONS

JULY 1936

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Free distribution of technical material and periodicals is restricted.

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Goldenseal under cultivation. Walter Van Fleet, Bureau of Plant Industry. 14 p., illus. (F. B. 613F., rev.) Price, 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Quality guides in buying women's cloth coats. Clarice L. Scott, Bureau of Home Economics. 8 p. (Leaf. 117L.) Price, 5¢.

The informative tags now attached to some coats are helpful, but too often the facts given concern only one part of the garment, such as the fur or the interlining. More complete information would be a distinct help to the woman purchaser, and the trade would also benefit by calling consumer attention to special qualities or to the service that might reasonably be expected.

DEPARTMENT BULLETINS

The Department Bulletins are technical or scientific in nature and apply to a special crop, industry, or locality. This series ends with no. 1500, and is succeeded by the Technical Bulletin series. The editions are limited.

The genera of grasses of the United States, with special reference to the economic species. A. S. Hitchcock, Bureau of Plant Industry. 302 p., illus. (D. B. 722D., rev.) Price, 35¢.

TECHNICAL BULLETINS

The technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Effect of artificially drying seed cotton before ginning on certain quality elements of the lint and seed and on the operation of the gin stand. Francis L. Gerdes, Bureau of Agricultural Economics, and Charles A. Bennett, Bureau of Agricultural Engineering. 62 p., illus. (T. B. 508T.) Price, 10¢.

This study shows the relationship between the moisture content of seed cottons (undried) and some of the quality elements of ginned lint; determines the extent to which artificial drying reduces the quantity of moisture in seed cottons; shows the comparative effects on quality elements of ginned lint and cottonseed, and on the mechanical operation of the gin machinery and determines the proper drying temperatures for seed cottons of different moisture content.

Timber growing and logging practice in ponderosa pine in the Northwest. R. H. Weidman, Forest Service; with introduction by Ferdinand A. Silcox, Forest Service. 92 p., illus. (T. B. 511T.) Price, 10¢.

This bulletin is the last of a series of 12 publications covering the principal forest regions of the United States. The measures proposed are arranged in two general groups: (1) Minimum needed to prevent timber-producing land from becoming barren and (2) desirable forestry practice.

Agricultural loans of commercial banks. Norman J. Wall, Bureau of Agricultural Economics. 56 p. illus. (T. B. 521T.) Price 10¢.

The analysis of changes in the volume of agricultural loans for the war and post-war periods together with a detailed analysis of the outstanding agricultural loans held by commercial banks at the end of 1934 is summarized in this publication.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Care and maintenance of cotton-gin saws and ribs. Charles A. Bennett, Bureau of Agricultural Engineering, and Francis L. Gerdes, Bureau of Agricultural Economics. 20 p., illus. (Cir. 393C.) Price, 5¢.

This circular emphasizes the importance of keeping gin saws and ribs in good condition and gives practical information regarding their maintenance and repair.

A method of harvesting grapefruit to retard stem-end rot. J. R. Winston, Bureau of Plant Industry. 8 p., illus. (Cir. 396C.) Price, 5¢.

After grapefruit is clipped, infection in the stem parts advances into the fruit. If fruit with infected stems is pulled, the point of infection may be separated from the fruit, thus preventing development of decay.

MISCELLANEOUS CIRCULARS

These circulars include those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department. The series closed with no. 110 and is replaced by the Miscellaneous Publication series.

State sanitary requirements governing admission of livestock. Revised to April 1, 1936. Bureau of Animal Industry. 133 p. (M. C. 14 MC, rev.) Price, 10¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Food plants of the North American Indians. Elias Yanovsky, Bureau of Chemistry and Soils. 84 p. (M. P. 237MP.) Price, 10¢.

Directory of activities of the Bureau of Plant Industry. Bureau of Plant Industry. 130 p., illus. (M. P. 238MP.) Price, 10¢.

Colloid chemistry of cellulosic materials. Alfred J. Stamm, Forest Service. 91 p. (M. P. 240MP.) Price, 10¢.

The purpose of this publication is to make available under one cover a connected review of the colloid chemistry of cellulosic materials in the effort to stimulate further researches and discovery, seeking always a clearer knowledge of the materials and their chemical and physical relationships.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Bureau of Entomology and Plant Quarantine, Service and Regulatory Announcements. January-March 1936. Pp. 1-40. (S. R. A.—B. E. P. Q. no. 126.)¹

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 13-47. (N. J., F. D. 25026-25075). Drugs.¹

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area.

Indiana, Randolph County. (No. 18, series 1931.) 36 p., illus. Price, 30¢.

North Carolina, Washington County. (No. 8, series 1932.) 25 p., illus. Price, 25¢.

Ohio, Brown County. (No. 40, series 1930.) 55 p., illus. Price, 35¢.

Ohio, Putnam County. (No. 41, series 1930.) 35 p., illus. Price, 30¢.

Texas, Falls County. (No. 7, series 1932.) 40 p., illus. Price, 30¢.

Texas, Hardeman County. (No. 9, series 1932.) 38 p., illus. Price, 35¢.

¹ These may be obtained from the issuing bureau.

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Farmers' Bulletins	Leaflets	Other publications

OTHER PUBLICATIONS

- Directory of the Bureau of Animal Industry. (Corrected to May 1, 1936.) 67 p. Price, 10¢.
- Laws applicable to the United States Department of Agriculture, 1935: Embracing acts and provisions of a permanent character in force September 6, 1935. Compiled by J. P. Wenchel and Morrow H. Moore, Office of the Solicitor. 750 p. Distribution restricted.
- Report of the Puerto Rico Experiment Station, 1935. 34 p., illus. Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

- Agricultural situation. Vol. 20, no. 7, July 1, 1936. Price, 5¢ a copy; 25¢ a year, domestic; 45¢ a year, foreign.²
- Crops and markets. Vol. 13, no. 6, June 1936. Price, 10¢ a copy; \$1.00 a year, domestic; 45¢ a year, foreign.²
- Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.
- Daily weather maps. Limited editions. Not for general distribution.
- Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.²
- Experiment station record. Vol. 75, no. 1, July 1936. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.²
- A technical view of the world's scientific literature pertaining to agriculture.
- Extension service review. Vol. 7, no. 7, July 1936. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 90¢ a year, foreign.²
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- Journal of agricultural research. Price, \$3.25 a year, domestic; \$4.75 a year, foreign. Each issue, 15¢, domestic; 20¢, foreign. Reprints, 5¢, domestic; 8¢, foreign.² Not distributed free to individuals.
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Journal of agricultural research. Vol. 52, no. 11. June 1, 1936. Illus.

Contents:

- Length of the dormant period in cereal seeds (Minn.-95). A. H. Larson, R. B. Harvey, and John Larson.
- The estimation of the heat production of cattle from the insensible loss in body weight (Ill.-63). H. H. Mitchell and T. S. Hamilton.
- Viability of conifer seed as affected by seed-moisture content and kiln temperature (F-76). William G. Morris.
- The comparative insecticidal efficiency against the camphor scale of spray oils with different unsulphonatable residues (K-270). A. W. Cressman and Lynn H. Dawsey.
- Transmission of sugarcane mosaic by the rusty plum aphid, *Hysteronura setariae* (K-271). J. W. Ingram and E. M. Summers.
- The composition and digestibility of mung-bean silage, with observations on the silica-ratio procedure for studying digestibility (Okla.-25). Willis D. Gallup and A. H. Kuhlman.

Vol. 52, no. 12. June 15, 1936. Illus.

Contents:

- Inheritance of resistance to the common mosaic virus in the bean (G-1015). M. C. Parker.
- Relation of stomatal function of wheat to invasion and infection by leaf rust (*Puccinia triticina*) (G-1013). Ralph M. Caldwell and G. M. Stone.
- Inhibiting effect of sulphur in selenized soil on toxicity of wheat to rats (G-1014). Annie M. Hurd-Karrer and Mary H. Kennedy.
- Response of certain plants to length of day and temperature under controlled conditions (G-1016). Robert A. Steinberg and W. W. Garner.
- Scribner volume tables for cut-over stands of ponderosa pine in Arizona (F-77). Ezra M. Hornibrook.

Monthly weather review. Vol. 64, no. 4, April 1936. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.² Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 17, no. 5, July 1936. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.²

Soil conservation. Vol. 2, no. 1, July 1936. Price, 10¢ a copy; \$1 a year, domestic.²

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

Weekly weather and crop bulletin. Nos. 27-30, July 7-28, 1936. Price, 50¢ a year, domestic; \$1 a year, foreign.²

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Free distribution of technical material and periodicals is restricted.

FARMERS' BULLETINS

Diets to fit the family income. Rowena Schmidt Carpenter and Hazel K. Stiebeling, Bureau of Home Economics. 38 p., illus. (F. B. 1757F.) Price, 5¢.

Cover crops for soil conservation. Walter V. Kell and Roland McKee, Bureau of Plant Industry. 14 p., illus. (F. B. 1758F.) Price, 5¢.

TECHNICAL BULLETINS

The effect of crazy top disorder on cotton plants and its control by irrigation management. Claude Hope, C. J. King, and Orlan Parker, Bureau of Plant Industry. 44 p., illus. (T. B. 515T.) Price, 10¢.

Temperature studies of some tomato pathogens. Alice Allen Nightingale and G. B. Ramsey, Bureau of Plant Industry, in cooperation with the Department of Botany, University of Chicago. 36 p., illus. (T. B. 520T.) Price, 5¢.

Incomplete milking in relation to milk production and udder troubles in dairy cows. T. E. Woodward, R. P. Hotis, and R. R. Graves, Bureau of Dairy Industry. 27 p., illus. (T. B. 522T.) Price, 5¢.

Silting of reservoirs. Henry M. Eakin, Soil Conservation Service. 142 p., illus. (T. B. 524T.) Price, 40¢.

CIRCULARS

Control of the Japanese beetle on fruit and shade trees. W. E. Fleming and F. W. Metzger, Bureau of Entomology and Plant Quarantine. 12 p. illus. (Cir. 237C., rev.) Price, 5¢.

Measuring fire weather and forest inflammability. H. T. Gisborne, Forst Service. 59 p. illus. (Cir. 398C.) Price, 10¢.

Blue grama grass for erosion control and range reseeding in the Great Plains and a method of obtaining seed in large lots. Jess L. Fults. 8 p., illus. (Cir. 402C.) Price, 5¢.

The choice of crops for saline land. T. H. Kearney and C. S. Scofield, Bureau of Plant Industry. 24 p. (Cir. 404C.) Price, 5¢.

MISCELLANEOUS PUBLICATIONS

The genera of parasitic wasps of the Braconid subfamily Euphorinae, with a review of the Nearctic species. C. F. W. Muesebeck, Bureau of Entomology and Plant Quarantine. 38 p., illus. (M. P. 241MP.) Price, 5¢.

SOIL SURVEYS

Alabama, Mobile County. (No. 42, series 1930.) 47 p., illus. Price, 65¢.

California, Alturas area. (No. 23, series 1931.) 54 p., illus. Price, 50¢.

Kentucky, Fayette County. (No. 25, series 1931.) 45 p., illus. Price, 25¢.

North Carolina, Lee County. (No. 1, series 1933.) 42 p., illus. Price, 30¢.

West Virginia, Randolph County. (No. 11, series 1931.) 32 p., illus. Price, 40¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Regulations governing the meat inspection of the United States Department of Agriculture. Bureau of Animal Industry. 1 p. (Amdt. 11 to B. A. I. Order 211, revised.)¹

Bureau of Animal Industry, Service and Regulatory Announcements. June 1936. Pp. 59-67. (S. R. A.-B. A. I. 350). Price 5¢ each.²

Rules and regulations of the Secretary of Agriculture governing the inspection and certification of fruits, vegetables, and other products. Bureau of Agricultural Economics. 7 p. (S. R. A.-B. A. E. 93, second rev., June 1936).¹

Regulations of the Secretary of Agriculture under the United States Cotton Futures Act. Effective August 20, 1936. Bureau of Agricultural Economics. 22 p. (S. R. A.-B. A. E. 152).¹

Notice of lifting of quarantine no. 20 on account of the European pine shoot moth. Effective September 1, 1936. Bureau of Entomology and Plant Quarantine. 1 p. (P. Q. C. A.-Q. 20).¹

Pines, other than five-leaf pines, from Europe brought under quarantine 37 by revocation of quarantine 20. Effective September 1, 1936. Bureau of Entomology and Plant Quarantine. 1 p. (P. Q. C. A.-Q. 20).¹

Notice of permit requirement for the entry of seeds of *Lathyrus* and *Vicia*. Bureau of Entomology and Plant Quarantine. 1 p.¹

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 49-91. (N. J., F. D. 25076-25125); Drugs; Pp. 93-115. (N. J., F. D. 25126-25150); Drugs; Pp. 157-205. (N. J., F. D. 25251-25375); Foods.¹

Notices of judgment under the Insecticide Act. Food and Drug Administration. Pp. 259-274. (N. J., I. F. 1426-1450).¹

OTHER PUBLICATIONS

Agricultural statistics, 1936. 421 p. Free only to Government officials and co-operators. Price, 50¢. Paper covers.²

Great forest fires of America. John D. Guthrie, Forest Service. 10 p., illus.¹

Model traffic ordinances. Bureau of Public Roads. 30 p.¹

Report on the agricultural experiment stations, 1935. J. T. Jardine and W. H. Beal. 160 p. Price, 15¢.

Serving American agriculture. A report of extension work in agriculture and home economics in 1933. Extension Service. 69 p. Price, 10¢.

Yearbook of agriculture, 1936. 1189 p. For sale only. Price 1.25 (cloth).³

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 20, no. 8, August 1, 1936. Price, 5¢ a copy; 25¢ a year, domestic; \$1 a year, foreign.²

Crops and markets. Vol. 12, 1935, Index; vol. 13, no. 7, July 1936. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.²

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

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Farmers' Bulletins	Leaflets	Other publications

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscription, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.²

Experiment station record. Vol. 73, Index number; vol. 75, no. 2, August 1936. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.²

A technical view of the world's scientific literature pertaining to agriculture.

Monthly weather review. Vol. 64, no. 5, May 1936. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.² Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 17, no. 6, August 1936. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.²

Soil conservation. Vol. 1, Index; vol. 2, no. 2, August 1936. Price, 10¢ a copy; \$1 a year, domestic.²

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

Weekly weather and crop bulletin. Nos. 31-34, August 4-25, 1936. Price, 50¢ a year, domestic; \$1 a year, foreign.²

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

AGRICULTURAL ADJUSTMENT ADMINISTRATION

G-50. Stabilized milk markets. The goal of the dairy industry. 6 p.³

G-51. Farmers and the export market. Henry A. Wallace. 16 p.³

G-52. Summary of provisions of the Soil Conservation and Domestic Allotment Act. 4 p.³

G-53. Saving the soil. What it means to farmers and the Nation. 8 p.³

G-54. Soil conservation—its place in national agricultural policy. 27 p.³

G-55. Agricultural adjustment 1933 to 1935. A report of administration of the Agricultural Adjustment Act, May 12, 1933, to December 31, 1935. 322 p. For sale only. Price, 25¢.²

G-56. Making the most of the home market. Henry A. Wallace. 8 p.³

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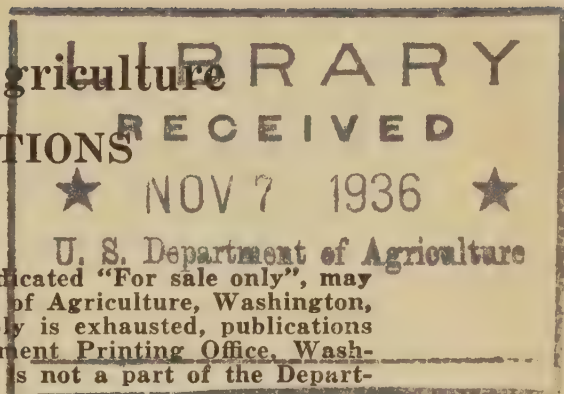
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MONTHLY LIST OF PUBLICATIONS

SEPTEMBER 1936



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Free distribution of technical material and periodicals is restricted.

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Laying out fields for tractor plowing. C. D. Kinsman and L. A. Reynoldson, Bureau of Agricultural Economics. 18 p. illus. (F. B. 1045F., rev.) Price, 10¢.

Breeds of swine. E. Z. Russell, Bureau of Animal Industry. 14 p., illus. (F. B. 1263F., rev.) Price, 5¢.

Preparation of eastern grapes for market. B. E. Shaffer, Bureau of Agricultural Economics. 18 p., illus. (F. B. 1558F., rev.) Price, 5¢.

Home canning of fruit, vegetables, and meats. Louise Stanley and Mabel C. Stienbarger, Bureau of Home Economics. 38 p., illus. (F. B. 1762F.) Price, 5¢.

In order to preserve all the vitamins possible in canned products, emphasis is placed throughout this bulletin on canning foods very soon after they are gathered and on carrying every step of the process through rapidly. This bulletin is a revision of and supersedes Farmers' Bulletin 1471, Canning Fruits and Vegetables at Home.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Identification, history, and distribution of common sorghum varieties. H. N. Vinall, J. C. Stephens, and J. H. Martin, Bureau of Plant Industry. 102 p., illus. (T. B. 506T.) Price, 25¢.

This bulletin provides a description of commercial varieties, a key to assist in the identification of varieties, estimated acreage, and distribution of the important varieties, and the known history of all varieties described.

Effect of different methods of wintering beef calves, in the northern Great Plains, on winter gains and feed costs and on subsequent summer gains. W. H. Black, J. R. Quesenberry, and A. L. Baker, Bureau of Animal Industry. 11 p., illus. (T. B. 529T.) Price, 5¢.

The experiments reported in this bulletin were made at the United States Range Livestock Experiment Station, formerly the Fort Keogh Military Reservation, located near the center of the northern Great Plains, in Miles City, Mont.

Wheat requirements in Europe. (Especially pertaining to quality and type and to milling and baking practices.) J. H. Shollenberger, Bureau of Agricultural Economics. 191 p., illus. (T. B. 535T.) Price, 15¢.

The descriptive information presented in this bulletin is based largely on field investigations made in Europe by the author during the period from June 1931 to June 1934.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Flour-mill insects and their control. G. A. Dean, Kansas Agricultural Experiment Station; and R. T. Cotton, and G. B. Wagner, Bureau of Entomology and Plant Quarantine. 34 p., illus. (Cir. 390C.) Price, 5¢.

This circular describes the principal insect pests of stored grain and methods for their control. Of vital importance to the miller who wishes to maintain a clean mill and reduce losses from insects to a minimum.

Diagnosing bee diseases in the apiary. C. E. Burnside and A. P. Sturtevant, Bureau of Entomology and Plant Quarantine. 35 p. illus. (Cir. 392C.) Price, 5¢.

This circular tells where to look and what to notice in the examination of colonies for possible or suspected disease.

Machine placement of fertilizers for snap beans in Florida. G. A. Cumings and A. L. Sharp, Bureau of Agricultural Engineering; and J. J. Skinner, G. M. Bahrt, and G. H. Serviss, Bureau of Plant Industry. 43 p., illus. (Cir. 399C.) Price, 5¢.

Describes experiments conducted in 1931, 1932, and 1933 on growers' farms on two of the principal soil types used for truck crops in this section of Florida.

Preventing injury from Japanese and Asiatic beetle larvae to turf in parks and other large areas. Walter E. Fleming, Bureau of Entomology and Plant Quarantine. 12 p., illus. (Cir. 403C.) Price, 5¢.

This circular is designed primarily to furnish interested persons with a means of identifying these larvae and to supply the latest information on the most satisfactory procedures for protecting turf from injury. It supersedes Circular 238, which is out of print.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Regulations for warehousemen storing tobacco under the United States Warehouse Act. Approved August 3, 1935; amended March 26, 1936. Bureau of Agricultural Economics. 22 p. (S. R. A.—B. A. E. 129, rev.)¹

United States standards for potatoes. Bureau of Agricultural Economics. September 1936. 4 p. (S. R. A.—B. A. E. 151).¹

Regulations of the Secretary of Agriculture under the United States Cotton Standards Act. Effective August 20, 1936. Bureau of Agricultural Economics. 26 p. (S. R. A.—B. A. E. 153).¹

Bureau of Animal Industry, Service and Regulatory Announcements. July 1936. Pp. 69-78. (S. R. A.—B. A. I. 351); August 1936. Pp. 79-87. (S. R. A.—B. A. I. 352). Price, 5¢ each.²

Migratory Bird Treaty Act regulations: 1936. Bureau of Biological Survey. 9 p. (S. R. A.—B. S. 84) August 1936. Price, 5¢ each.²

List of intercepted plant pests, 1935. Bureau of Entomology and Plant Quarantine. 131 p. (B. E. P. Q.)¹

Modification of pink bollworm quarantine regulations. Effective August 17, 1936. Bureau of Entomology and Plant Quarantine. 2 p. (B. E. P. Q.—Q. 52, rev.)¹

Notice of quarantine no. 60 (revised), Hawaiian and Puerto Rican quarantine covering sand, soil, or earth, with plants. Effective September 1, 1936. Bureau of Entomology and Plant Quarantine. 1 p. (B. E. P. Q.—Q. 60, rev.)¹

Notices of judgment. Food and Drug Administration. Index to Notices of Judgment 20001-21000. Foods. Pp. 551-581.¹

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 117-155. (N. J., F. D. 25151-25250.) Food.¹

White pines, currants, and gooseberries from Europe, Asia, Canada, and Newfoundland brought under quarantine 37 by revocation of quarantine 7. Effective September 1, 1936. (P. Q. C. A.—Q. 7.) 1 p.¹

OTHER PUBLICATIONS

The mammals and life zones of Oregon. Vernon Bailey, Bureau of Biological Survey. 416 p., illus. (N. A. Fauna 55NA.) Price, 75¢.

The present report puts on record much that is not commonly known about animal life, and represents a beginning rather than the finished product of studies of the State's mammals.

¹ These may be obtained from the issuing bureau.

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Farmers' Bulletins	Leaflets	Other publications

PERIODICALS

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Agricultural situation. Vol. 20, no. 9, September 1, 1936. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.²

Crops and markets. Vol. 13, no. 8, August 1936. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.²

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

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Experiment station record. Vol. 73, no. 3, September 1936. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.75 per volume, foreign. Single number for sale only. Price, 15¢.²

A technical view of the world's scientific literature pertaining to agriculture.

Extension service review. Vol. 7, no. 8, August 1936. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 90¢ a year, foreign.²

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$3.25 a year, domestic; \$4.75 a year, foreign. Each issue, 15¢, domestic; 20¢, foreign. Reprints, 5¢, domestic; 8¢, foreign.² Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

Journal of agricultural research. Vol. 53, no. 1. July 1, 1936.

Contents:

- Effect of carbon dioxide on the carbohydrates and acidity of fruits and vegetables in storage (G-1017). Erston V. Miller and Oscar J. Dowd.
- Absorption, distribution, and seasonal movement of potassium in young apple trees and the effect of potassium fertilizer on potassium and nitrogen content and growth of trees (Md.-7). R. F. Chandler, Jr.
- Distribution of total soluble solids and catalase in different parts of Jonathan apples (G-1018). Paul L. Harding.
- Distribution of acetaldehyde and alcohol in the apple fruit (G-1019). Erston V. Miller.
- The role of the capillary potential in the dynamics of soil moisture (Utah-34). Willard Gardner.
- The effect of fertilizers and lime upon the electro-dialyzable and exchangeable potash of cropped soil (Del.-8). G. M. Gilligan.
- An experimental study of the relation between the uropygial gland and vitamin D deficiency in chicks (Maine-24). Elizabeth F. Murphy.
- Oxidation-reduction potentials of soil suspensions in relation to acidity and nitrification (Mass.-46). M. C. Darnell, Jr., and W. S. Eisenmenge.

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Journal of agricultural research. Vol. 53, no. 2. July 1, 1936.

Contents:

- The nature of resistance of flax to *Melampsora lini* (Minn.-96). E. G. Sharvelle.
Response of wheat varieties to different fertility levels (Ohio-20). C. A. Lamb and Robert M. Salter.
Root growth of seedlings of *Pinus echinata* and *Pinus taeda* (Ark.-22). Lewis M. Turner.
Inheritance of complementary dwarfing factors in wheat (G-1020). V. H. Florell and J. Foster Martin.

Vol. 53, no. 3. August 1, 1936. Illus.

Contents:

- Pea mosaic and its relation to other legume mosaic viruses (G-1021). W. J. Zaumeyer and B. L. Wade.
Paris green and its homologues as insecticides against the Japanese beetle (K-272). Walter E. Fleming and Francis E. Baker.
Derris as a Japanese beetle repellent and insecticide (K-273). Walter E. Fleming and Francis E. Baker.
The ammoniation of waste sulphite liquor and its possible utilization as a fertilizer material (E-67). M. Phillips, M. J. Goss, B. E. Brown, and F. R. Reid.
A study of the effect of *Brucella abortus* in udderless cows (Ohio-21). B. H. Edgington.
Rough *Salmonella pullorum* variants from chicks (N. C.-33). H. C. Gauger.

Monthly weather review. Vol. 64, no. 6, June 1936. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.² Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 16, Index, March 1935-February 1936. Price, 10¢ a copy.²

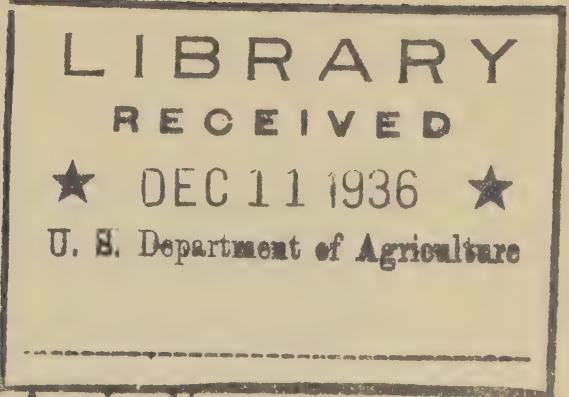
Soil conservation. Vol. 2, no. 3, September 1936. Price, 10¢ a copy; \$1 a year, domestic.²

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

Weekly weather and crop bulletin. Nos. 35-39, September 1-29, 1936. Price, 50¢ a year, domestic; \$1 a year, foreign.²

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United States Department of Agriculture

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FARMERS' BULLETINS

- Preventing damage by Lyctus powder-post beetles. T. E. Snyder, Bureau of Entomology and Plant Quarantine. 14 p., illus. (F. B. 1477F., rev.) Price, 5¢.
- Preparing strawberries for market. R. G. Hill, Bureau of Agricultural Economics. 22 p., illus. (F. B. 1560F., rev.) Price, 5¢.
- Cucumber growing. W. R. Beattie, Bureau of Plant Industry. 22 p., illus. (F. B. 1563F., rev.) Price, 5¢.
- Game laws for the season 1936-37: A summary of Federal, State, and provincial statutes. H. P. Sheldon and Frank G. Grimes, Bureau of Biological Survey. 38 p., illus. (F. B. 1766F.) Price, 5¢.

LEAFLETS

- Woods burning in the South. Forest Service. 4 p. (Leaf. 40L., rev.) Price, 5¢.
- Excluding birds from reservoirs and fishponds. W. L. McAtee and S. E. Piper, Bureau of Biological Survey. 6 p., illus. (Leaf. 120L.) Price, 5¢.

TECHNICAL BULLETINS

- A second revision of the chalcid flies of the genus Harmolita (Isosoma) of America north of Mexico, with descriptions of 20 new species. W. J. Phillips, Bureau of Entomology and Plant Quarantine. 26 p., illus. (T. B. 518T.) Price, 5¢.
- Transportation of apples from the Shenandoah-Cumberland section to overseas markets. Paul L. Harding and Charles L. Powell, Bureau of Plant Industry. 27 p., illus. (T. B. 523T.) Price, 5¢.
- Flow of water around 180-degree bends. David L. Yarnell, Bureau of Agricultural Engineering, and Sherman M. Woodward, University of Iowa; in cooperation with the University of Iowa College of Engineering. 64 p., illus. (T. B. 526T.) Price, 10¢.
- Progressive effects of Polyporus versicolor on the physical and chemical properties of red gum sapwood. Theodore C. Scheffer, Bureau of Plant Industry. 46 p., illus. (T. B. 527T.) Price, 10¢.
- The comparative moisture-absorbing and moisture-retaining capacities of peat and soil mixtures. I. C. Feustel, and H. G. Byers, Bureau of Chemistry and Soils. 26 p., illus. (T. B. 532T.) Price, 5¢.
- Toxicity of food containing selenium as shown by its effect on the rat. Hazel E. Munsell, Grace M. DeVaney, and Mary H. Kennedy, Bureau of Home Economics. 26 p., illus. (T. B. 534T.) Price, 5¢.

CIRCULARS

- Dimension-stock methods for New England hardwoods. A. O. Benson, Forest Service. 61 p., illus. (Cir. 394C.) Price, 10¢.

- A simple method for detecting mastitis streptococci in milk. R. P. Hotis, Bureau of Dairy Industry, and W. T. Miller, Bureau of Animal Industry. 7 p., illus. (Cir. 400C.) Price, 10¢.
- Control of the Japanese beetle and its grub in home yards. W. E. Fleming and F. W. Metzger, Bureau of Entomology and Plant Quarantine. 15 p., illus. (Cir. 401C.) Price, 5¢.
- Results from breeding rabbits that are suckling young. Chas. E. Kellogg, Bureau of Biological Survey. 8 p. (Cir. 410C.) Price, 5¢.
- An improved method for converting an observed skein strength of cotton yarn to the strength of a specified yarn count. Malcolm E. Campbell, Bureau of Agricultural Economics in cooperation with Clemson Agricultural College. 19 p., illus. (Cir. 413C.) Price, 5¢.
- Farmer bankruptcies, 1898-1935. David L. Wickens, Bureau of Agricultural Economics. 32 p., illus. (Cir. 414C.) Price, 5¢.
- The farm real estate situation, 1935-36. B. R. Stauber and M. M. Regan, Bureau of Agricultural Economics. 40 p., illus. (Cir. 417C.) Price, 5¢.

MISCELLANEOUS PUBLICATIONS

- Officials and organizations concerned with wildlife protection, 1936. Frank G. Grimes, Bureau of Biological Survey. 16 p., illus. (M. P. 244M.) Price, 5¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

- Rules and regulations of the Secretary of Agriculture under the United States Standard Container Act of August 31, 1916 (39 Stat. 673), as amended June 11, 1934 (48 Stat. 930). Bureau of Agricultural Economics. (S. R. A.-B. A. E. 104, rev., July 1936.)¹
- Bureau of Animal Industry, Service and Regulatory Announcements. September 1936; pp. 89-96. (S. R. A.-B. A. I. 353.) Price, 5¢ each.²
- Bureau of Entomology and Plant Quarantine, Service and Regulatory Announcements, 1935. Index. 3 p.¹
- Bureau of Entomology and Plant Quarantine, Service and Regulatory Announcements. April-June 1936. Pp. 41-93. (S. R. A.-B. E. P. Q.)¹
- Notice of lifting of date palm scale quarantine. Effective July 1, 1936. Bureau of Entomology and Plant Quarantine. 1 p. (B. E. P. Q.-Q. 6.)¹
- Notices of judgment under the Food and Drugs Act, nos. 21001-22000, index. Food and Drug Administration. Pp. 531-562.¹
- Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 207-240. (N. J., F. D. 25376-25425.) Drugs; pp. 241-274. (N. J., F. D. 25426-25525.) Foods; pp. 275-297. (N. J., F. D. 25526-25550.) Foods; pp. 299-342. (N. J., F. D. 25551-25650.)¹

OTHER PUBLICATIONS

- Plant material introduced by the Division of Plant Exploration and Introduction. Bureau of Plant Industry, April 1 to June 30, 1934. (Nos. 105036-105932.) 38 p. (Inventory 119.) Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

- Agricultural situation. Vol. 20, no. 10, October 1, 1936. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year foreign.²

¹ These may be obtained from the issuing bureau.

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Indicate below, by numbers IN NUMERICAL ORDER, bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelope to United States Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications. If more are desired please apply to Superintendent of Documents, Government Printing Office, Washington, D. C., enclosing remittance to cover cost of publication. Be sure to fill in blank form on reverse side.

Farmers' Bulletins	Leaflets	Other publications

Crops and markets. Vol. 13, no. 9, September 1936. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.²

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.²

Experiment station record. Vol. 75, no. 4, October 1936. Price, \$1 per volume (2 volumes a year), consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.²

A technical view of the world's scientific literature pertaining to agriculture.

Journal of agricultural research. Price, \$3.25 a year, domestic; \$4.75 a year, foreign. Each issue, 15¢ domestic; 20¢ foreign. Separates, 5¢ domestic; 8¢ foreign.² Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

Journal of agricultural research. Vol. 52, January 1–June 15, 1936. Title page, contents, and index. Pp. 975–983. Price, 5¢.

——— Vol. 53, no. 4. Illus. August 15, 1936.

Contents:

Lethal high temperatures for conifers, and the cooling effect of transpiration (F-78). Hardy L. Shirley.

Development-temperature correlation in the green bug, *Toxoptera graminum* (K-274). F. M. Wadley.

The calcium and inorganic phosphorus content of the blood serum of swine (Calif.-75). E. H. Hughes.

Nutritive value of the protein of *Cajanus indicus* (Hawaii-3). Carey D. Miller and Ruth C. Robbins.

Studies on the inheritance of resistance to wilt (*Fusarium niveum*) in watermelon (W. Va.-11). L. S. Bennett.

The toxicity of certain chemical agents to *Erwinia amylovora* (Wis.-77). G. W. Keitt, J. A. Pinckard, Luther Shaw, and A. J. Riker.

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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Journal of agricultural research. Vol. 53, no. 5. September 1, 1936. Illus.

Contents:

- A method for estimating populations of larvae of the Japanese beetle in the field (K-275). Walter E. Fleming and Francis E. Baker.
- Alfalfa dwarf, a virus disease transmissible by grafting (G-1022). J. L. Weimer.
- Nutritive value of the protein in calf lungs, cow udders, and hog spleens (A-170). Ralph Hoagland and George G. Snider.
- Effect of diet, range, and fattening on the physical and chemical composition of cockerels (A-171). H. M. Harshaw.
- The relative value of various lards and other fats for the deep-fat frying of potato chips (T-9). Florance B. King, Rosemary Loughlin. R. W. Riemen-schneider, and N. R. Ellis.
- Fasciation of sweet peas caused by *Phytomonas fascians* n. sp. (Ohio-22). Paul E. Tilford.
- Specific effects of zinc applications on leaves and twigs of orange trees affected with mottle-leaf (Calif.-76). H. S. Reed and E. R. Parker.

— Vol. 53, no. 6. September 15, 1936. Illus.

Contents:

- The effect of leaf rust accompanied by heat upon yield, kernel weight, bushel weight, and protein content of hard red spring wheat (N. Dak.-12). L. R. Waldron.
- The influence of cooking and canning on the vitamin B and G content of lean beef and pork (N. Dak.-13). F. W. Christensen, Esther Latzke, and T. H. Hooper.
- Automatically operated sand-culture equipment (G-1023). Frank M. Eaton.
- The development of the wheat spike (Ill.-64). O. T. Bonnett.
- Effect of packing-house byproducts, in the diet of chickens, on the production and hatchability of eggs (A-172). Harry W. Titus, T. C. Byerly, N. R. Ellis, and R. B. Nestler.
- A seedling wilt of black locust caused by *Phytophthora parasitica* (G-1025). Edmund R. Lambert and Bowen S. Crandall.

Monthly weather review. Vol. 64, no. 7, June 1936. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.² Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 17, October 1936. Price, 10¢ a copy.²

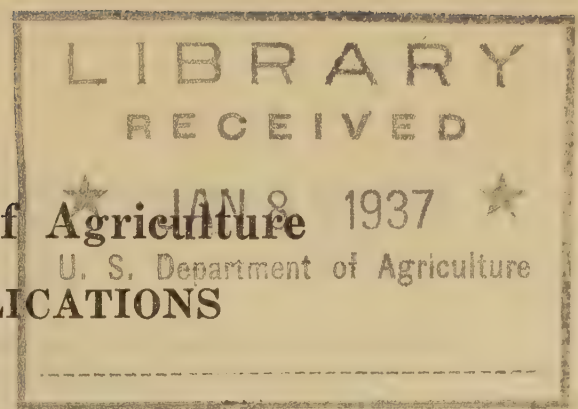
Soil conservation. Vol. 2, no. 4, October 1936. Price, 10¢ a copy; \$1 a year, domestic.²

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

Weekly weather and crop bulletin. Nos. 40-43, October 6-27, 1936. Price, 50¢ a year, domestic; \$1 a year, foreign.²

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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MONTHLY LIST OF PUBLICATIONS

NOVEMBER 1936

Any five of the nontechnical publications listed herein, unless indicated "For sale only", may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

FARMERS' BULLETINS

- Tobacco culture. W. W. Garner. Bureau of Plant Industry. 22 p., illus. (F. B. 571F., rev.) Price, 5¢.
- Simple plumbing repairs in the home. George M. Warren, Bureau of Agricultural Engineering. 14 p., illus. (F. B. 1460F., rev.) Price, 5¢.
- The farm garden. J. H. Beattie and W. R. Beattie, Bureau of Plant Industry. 68 p., illus. (F. B. 1673F., rev.) Price, 10¢.
- Game management on the farm. J. N. Darling, H. P. Sheldon, and Ira N. Gabrielson, Bureau of Biological Survey. 22 p., illus. (F. B. 1759F.) Price, 5¢.
- The use of bluegrass sod in the control of soil erosion. R. E. Uhland, Soil Conservation Service. 13 p., illus. (F. B. 1760F.) Price, 5¢.

LEAFLETS

- Beef grading and stamping service. W. C. Davis, Bureau of Agricultural Economics. 8 p., illus. (Leaf. 67L., rev.) Price, 5¢.
- White clover. E. A. Hollowell, Bureau of Plant Industry. 8 p., illus. (Leaf. 119L.) Price, 5¢.
- U. S. graded and stamped meat. Bureau of Agricultural Economics. 7 p., illus. (Leaf. 122L.) Price, 5¢.

TECHNICAL BULLETINS

- Handling, precooling, and transportation of Florida strawberries. Dean H. Rose and E. A. Gorman, Jr., Bureau of Plant Industry. 58 p., illus. (T. B. 525T.) Price, 10¢.
- Conditions influencing erosion on the Boise River watershed. F. G. Renner, Forest Service. 32 p., illus. (T. B. 528T.) Price, 5¢.
- Subsoil waters of Newlands (Nev.) Field Station. Carl S. Scofield, C. Lloyd Moon, and Elmer W. Knight, Bureau of Plant Industry. 31 p., illus. (T. B. 533T.) Price, 5¢.
- Federal seed-loan financing and its relation to agricultural rehabilitation and land use. Norman Wall, Bureau of Agricultural Economics. 60 p., illus. (T. B. 539T.) Price, 10¢.

CIRCULARS

- Susceptibility of grape rootstocks to root knot nematode. Elmer Snyder, Bureau of Plant Industry. 16 p., illus. (Cir. 405C.) Price, 5¢.
- Wireworm-infestation trends accompanying certain crop rotations in the Pacific Northwest. F. H. Shirck and H. P. Lanchester, Bureau of Entomology and Plant Quarantine, in cooperation with the Idaho Agricultural Experiment Station. 10 p. (Cir. 408C.) Price, 5¢.
- The effect of thallium on plant growth. E. E. Horn, Justus C. Ward, James C. Munch, and F. E. Garlough, Bureau of Biological Survey. 8 p. (Cir. 409C.) Price, 5¢.

Groups of plants valuable for wildlife utilization and erosion control. W. L. McAtee, Bureau of Biological Survey. 12 p., illus. (Cir. 412C.) Price, 5¢.

MISCELLANEOUS PUBLICATIONS

Menus and recipes for lunches at school. Rowena Schmidt Carpenter, Helen Nebeker Hann, and Fanny Walker Yeatman, Bureau of Home Economics. 25 p. (M. P. 246M.) Price, 10¢.

Forestry and permanent prosperity. R. F. Hammatt, Forest Service. 20 p., illus. (M. P. 247M.) Price, 5¢.

Peat land in the Pacific Coast States in relation to land and water resources. A. P. Dachnowski-Stokes, Bureau of Chemistry and Soils. 68 p., illus. (M. P. 248M.) Price, 15¢.

Conservation farming practices and flood control. H. H. Bennett, Soil Conservation Service. 16 p., illus. (M. P. 253M.) Price, 10¢.

SOIL SURVEYS

Alabama, Lauderdale County. (No. 26, series 1931.) 43 p., illus. Price, 40¢.

New Mexico, Roswell area. (No. 2, series 1933.) 34 p., illus. Price, 25¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Amendment 2 to B. A. I. order 309 (regulations governing the interstate movement of livestock) modifying regulations 1 and 7. Effective September 10, 1936. Bureau of Animal Industry. 3 p. (Amdt. 2 to B. A. I. Order 309.)¹

Pink bollworm quarantine no. 52, revision of quarantine regulations. Effective October 14, 1936. Bureau of Entomology and Plant Quarantine. 8 p.¹

Service and regulatory announcements, 1935, with list of plant pests intercepted with imported plants and plant products. Bureau of Entomology and Plant Quarantine. 2 p. (S. R. A.-B. E. P. Q.)¹

Regulations governing sanitary export certification. Bureau of Entomology and Plant Quarantine. 3 p. (B. E. P. Q.-San. Exp. Regs.)¹

Coloring imported alfalfa and red clover seed as required under the Federal Seed Act. Service and Regulatory Announcements no. 22. Bureau of Plant Industry. (S. R. A.-B. P. I. 22.)¹

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Index to nos. 22001-23000; pp. 495-528; index to nos. 23001-24000, pp. 375-422.¹

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 343-401. (N. J., F. D. 25651-25800) Foods.¹

OTHER PUBLICATIONS

Report of the Chief of the Bureau of Dairy Industry, 1936. O. E. Reed. 28 p. Price, 5¢.

Report of the Chief of the Bureau of Home Economics, 1936. 14 p. Price, 5¢.

Report of the Chief of the Food and Drug Administration, 1936. W. G. Campbell. 23 p. Price, 5¢.

Report of the Chief of the Weather Bureau, 1936. Willis Ray Gregg. 15 p. Price, 5¢.

¹ These may be obtained from the issuing bureau.

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Farmers' Bulletins	Leaflets	Other publications

Report of the Director of Information, 1936. M. S. Eisenhower. 14 p. Price, 5¢.
Report of the Solicitor, 1936. Mastin G. White. 30 p. Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 20, no. 11, November 1, 1936. Price, 5¢ a copy; 25¢ a year, domestic; 45¢ a year, foreign.²
Crops and markets. Vol. 13, no. 10, October 1936. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.²

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.²

Experiment station record. Vol. 75, no. 5, November 1936. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.75 per volume, foreign. Single number for sale only. Price, 15¢.²

A technical view of the world's scientific literature pertaining to agriculture.

Extension service review. Vol. 7, no. 10, October 1936. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 90¢ a year, foreign.²

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Monthly weather review. Vol. 64, no. 8, August 1936. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.² Not for general distribution.

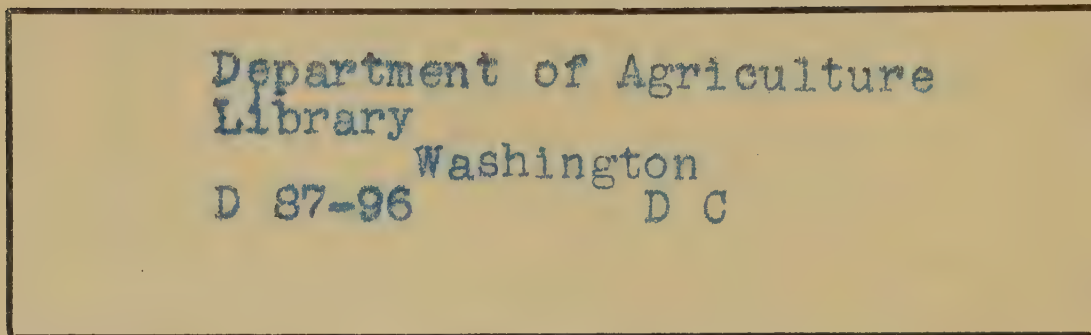
Contain (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary and (3) climatological tables.

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Soil conservation. Vol. 11, no. 5, November 1936. Price, 10¢ a copy; \$1 a year, domestic.²

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

Weekly weather and crop bulletin. Nos. 44-47, November 3-24, 1936. Price, 50¢ a year; domestic, \$1 a year, foreign.²

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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Free distribution of technical material and periodicals is restricted.

FARMERS' BULLETINS

- Eradication of ferns from pasture lands in the eastern United States. H. R. Cox, Bureau of Plant Industry. 9 p., illus. (F. B. 687F., rev.) Price, 5¢.
- The fall armyworm, or grassworm, and its control. W. R. Walton and Philip Luginbill, Bureau of Entomology and Plant Quarantine. 14 p., illus. (F. B. 752F., rev.) Price, 5¢.
- Marketing poultry. Rob R. Slocum, Bureau of Agricultural Economics. 34 p., illus. (F. B. 1377F., rev.) Price, 5¢.
- Vegetable seeds for the home and market garden. W. W. Tracy, Sr., and D. N. Shoemaker, Bureau of Plant Industry. 18 p., illus. (F. B. 1390F., rev.) Price, 5¢.
- The windbreak as a farm asset. Carlos G. Bates, Forest Service. 20 p., illus. (F. B. 1405F., rev.) Price, 5¢.
- Arbor Day, its purpose and observance. Forest Service. 25 p., illus. (F. B. 1492F., rev.) Price, 5¢.
- Peach brown rot and scab. John W. Roberts and John C. Dunegan, Bureau of Plant Industry. 16 p., illus. (F. B. 1527F., rev.) Price, 5¢.
- The Mexican bean beetle in the East and its control. Neale F. Howard, Loyd W. Brannon, and Horatio C. Mason, Bureau of Entomology and Plant Quarantine. 21 p., illus. (F. B. 1624F., rev.) Price, 5¢.
- Growing sweet corn for the cannery. J. H. Beattie, Bureau of Plant Industry. 22 p., illus. (F. B. 1634F., rev.) Price, 5¢.
- Harvesting with combines. W. M. Hurst and W. R. Humphries, Bureau of Agricultural Engineering. 37 p., illus. (F. B. 1761F.) Price, 5¢.

TECHNICAL BULLETINS

- Fungi isolated from discolored rice kernels. E. C. Tullis, Bureau of Plant Industry; in cooperation with the Arkansas, Louisiana, and Texas Agricultural Experiment Stations. 12 p., illus. (T. B. 540T.) Price, 5¢.
- Deterioration of book and record papers. T. D. Jarrell and F. P. Veitch, Bureau of Chemistry and Soils; and J. M. Hankins, Bureau of Plant Industry. 20 p., illus. (T. B. 541T.) Price, 5¢.

CIRCULARS

- Life history and control of the Asiatic garden beetle. H. C. Hallock and I. M. Hawley, Bureau of Entomology and Plant Quarantine. 20 p., illus. (Cir. 246C., rev.) Price, 5¢.
- Oil burners for home heating. Arthur H. Senner, Bureau of Agricultural Engineering. 27 p., illus. (Cir. 406C.) Price, 5¢.
- Plowing as a means of destroying wireworm pupae in the Pacific Northwest. F. H. Shrick, Bureau of Entomology and Plant Quarantine; in cooperation with the Idaho Agricultural Experiment Station. 8 p. (Cir. 407C.) Price, 5¢.
- Equipment for applying dust fungicides to seed grain. W. M. Hurst, F. D. Fulton, and W. R. Humphries, Bureau of Agricultural Engineering; and R. W. Leukel, Bureau of Plant Industry. 20 p., illus. (Cir. 415C.) Price, 5¢.

MISCELLANEOUS PUBLICATIONS

- Forest trees and forest regions of the United States. Wilbur R. Mattoon, Forest Service. 55 p., illus. (M. P. 217M.) Price, 15¢.
- Manual of the grasses of the West Indies. A. S. Hitchcock, Bureau of Plant Industry. 439 p., illus. (M. P. 243M.) Price, \$1.25 (Buckram).
- Tests of woods for butter containers with reference to imparting odor and flavor. E. M. Davis and G. C. Morbeck, Forest Service. 4 p., illus. (M. P. 250M.) Price, 5¢.
- The farm outlook for 1937. Bureau of Agricultural Economics, 44 p., illus. (M. P. 255M.) Price, 10¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

- Rule 1, revision 35—to prevent the spread of splenetic or tick fever in cattle. Effective December 1, 1936, Bureau of Animal Industry. 2 p. (B. A. I. Order 360).¹
- Bureau of Animal Industry, Service and Regulatory Announcements. October 1936; 97-108. (S. R. A.-B. A. I. 354.) Price, 5¢.²
- Bureau of Animal Industry, Service and Regulatory Announcements. November 1936. Pp. 109-120. (S. R. A.-B. A. I. 355.) Price, 5¢.²
- Bureau of Plant Industry, Service and Regulatory Announcement no. 23. Prosecutions and seizures under the interstate clause (sec. 6) of the Federal Seed Act. 10 p. (S. R. A.-B. P. I. 23.)¹
- Fruit and vegetable quarantine, notice of quarantine no. 56, with revised regulations. Effective December 1, 1936. Bureau of Entomology and Plant Quarantine. 5 p. (B. E. P. Q.-Q. 56, rev.)¹
- Modification of *Thurberia* weevil quarantine regulations. Effective October 22, 1936. Bureau of Entomology and Plant Quarantine. 2 p. (B. E. P. Q.-Q. 61, rev.)¹
- Modification of Dutch elm disease quarantine regulations. Effective November 9, 1936. Bureau of Entomology and Plant Quarantine. 2 p. (B. E. P. Q.-Q. 71, rev.)¹
- Definitions and standards for products for use in enforcing the Food and Drugs Act. Food and Drug Administration. 20 p. (S. R. A., F. D. no. 2, rev. 5.)¹
- Notices of Judgment under Food and Drugs Act. Food and Drug Administration. Index to Notices of Judgment 24001-25000. Pp. 485-512.¹

SOIL SURVEYS

- Texas, Wheeler County. (No. 10, series 1932.) 34 p., illus. Price, 35¢.

OTHER PUBLICATIONS

- Annual report of the Librarian, 1936. Claribel R. Barnett. 16 p. Price, 5¢.
- Report of the Chief of the Bureau of Agricultural Economics, 1936. A. G. Black. 22 p. Price, 5¢.
- Report of the Chief of the Bureau of Agricultural Engineering, 1936. S. H. McCrory. 24 p. Price, 5¢.
- Report of the Chief of the Bureau of Animal Industry, 1936. J. R. Mohler. 60 p. Price, 10¢.
- Report of the Chief of the Bureau of Biological Survey, 1936. Ira N. Gabrielson. 68 p. Price, 10¢.
- Report of the Chief of the Bureau of Chemistry and Soils, 1936. Henry G. Knight. 50 p. Price, 10¢.
- Report of the Chief of the Bureau of Entomology and Plant Quarantine, 1936. Lee A. Strong. 121 p. Price, 15¢.

¹ These may be obtained from the issuing bureau.

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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- Report of the Chief of the Grain Futures Administration, 1936. J. W. T. Duvel. 8 p. Price, 5¢.
- Report of the Chief of the Office of Experiment Stations, 1936. 14 p. Price, 5¢.
- Report of the Director of Finance, 1936. W. A. Jump. 28 p. Price, 5¢.
- Report of the Director of Personnel, 1936. W. W. Stockberger. 7 p. Price, 5¢.
- Report of the Secretary of Agriculture, 1936. Henry A. Wallace. 115 p. Price, 15¢. (Paper cover.)

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 20, no. 12, December 1, 1936. Price, 5¢ a copy ; 25¢ a year, domestic ; 45¢ a year, foreign.²

Crops and markets. Vol. 13, no. 11, November 1936. Price, 10¢ a copy ; \$1.00 a year, domestic ; \$1.50 a year, foreign.²

Statistics concerning crops and livestock estimates and market information ; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products ; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year ; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.²

Experiment station record. Vol. 75, no. 6, December 1936. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index ; \$1.75 per volume, foreign. Single number for sale only. Price, 15¢.²

A technical view of the world's scientific literature pertaining to agriculture.

Extension service review. Vol. 7, no. 11, November 1936. Illus. Price, 5¢ a copy ; 50¢ a year, domestic ; 90¢ a year, foreign.²

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$3.25 a year, domestic ; \$4.75 a year, foreign. Each issue, 15¢, domestic ; 20¢, foreign. Separates, 5¢, domestic ; 8¢, foreign.² Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

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Journal of agricultural research. Vol. 53, no. 7. October 1, 1936. Illus.

Contents:

- Morphological and chemical studies of the blood of cattle in health and during anaplasmosis (A-173). Charles W. Rees and Maurice W. Hale.
- A genetic factor for the annual habit in beets and linkage relationship (G-1024). F. A. Abegg.
- Zygosaccharomyces pini*, a new species of yeast associated with bark beetles in pines (G-1032). Eugene C. Holst.
- Viability of sclerotia of *Sclerotium rolfsii* after passage through the digestive tract of cattle and sheep (Calif.-77). L. D. Leach and S. W. Mead.
- Reproductive capacity of female rats as affected by kinds of carbohydrates in the ration (Kans.-80). C. H. Whitnah and Ralph Bogart.
- The distribution and condition of the potassium in a differentially fertilized Hagerstown clay loam soil planted to apple trees in cylinders (Pa.-56). Walter Thomas.
- Factors affecting the vitamin C content of apples (Wash.-24). E. L. Batchelder and E. L. Overholser.
- The determination of the apparent digestibility of green and cured grass by modified procedures (Wash.-25). J. C. Knott, H. K. Murer, and R. E. Hodgson.

Vol. 53, no. 8. October 15, 1936. Illus.

Contents:

- Effect of previous cold storage on the respiration of vegetables at higher temperatures (Md.-8). C. O. Appleman and C. L. Smith.
- The pH gradient extending from the phloem into the parenchyma of the sugar beet and its relation to the feeding behavior of *Eutettix tenellus* (G-1026).
- Further studies on the relation of the curly top virus to plant tissues (G-1028). C. W. Bennett and Katherine Esau.
- A mosaic disease of iris. Philip Brierley and Frank P. McWhorter.

Monthly weather review. Vol. 64, no. 9, September 1936. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.² Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 17, no. 9, November 1936. Price, 10¢ a copy.²

Soil conservation. Vol. 2, no. 6, December 1936. Price, 10¢ a copy; \$1 a year, domestic.²

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

Weekly weather and crop bulletin. Nos. 49-52, December 8-29, 1936. Price, 50¢ a year, domestic; \$1 a year, foreign.²

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